

The background is a complex abstract composition. It features several overlapping translucent planes in shades of brown, tan, and grey. Diagonal streaks of light in white, yellow, and orange cut across the frame. A prominent yellow beam enters from the bottom left, while a blue beam enters from the bottom right. These beams intersect and create a bright, glowing point of light. Faint, thin white lines and small circular bokeh effects are scattered throughout the scene, adding to the sense of depth and movement.

GRUBER & PETTERS

UntisExpress

grupet.at

Table of Contents

| | |
|---|-----------|
| I Timetable | 6 |
| 1 Introduction | 6 |
| Installation | 6 |
| Entering licence data | 6 |
| Automatic save | 8 |
| Help functions | 8 |
| Welcome screen | 8 |
| Demo files | 9 |
| Data entry wizard | 10 |
| 2 Basic data | 10 |
| School year | 11 |
| Time grid | 11 |
| Lunch break | 12 |
| School holidays | 13 |
| 3 Master data | 14 |
| Master data maintenance | 14 |
| Entries for all master data and lessons | 16 |
| Serial change | 17 |
| Rooms | 18 |
| Alternative rooms | 18 |
| Room weighting | 19 |
| Classes without designated rooms | 20 |
| Classes | 21 |
| Time requests for classes | 22 |
| Core times | 23 |
| Differentiated time requests | 24 |
| Teachers | 25 |
| Time requests for teachers | 26 |
| Specific time requests | 27 |
| Unspecified time requests | 27 |
| Values | 28 |
| Subjects | 29 |
| Printing master data and lessons | 30 |
| 4 Lessons | 31 |
| Entering lessons | 32 |
| Simple lessons | 32 |
| Coupled lessons | 33 |
| Several classes | 34 |
| Several teachers | 34 |
| Several classes, teachers and subjects | 35 |
| Coupling/decoupling lessons | 36 |
| Double periods | 36 |
| Blocks | 37 |
| Fortnightly lessons | 37 |
| Other entries for lessons | 38 |
| Input with element-rollup | 40 |

| | |
|--|-----------|
| Lesson planning | 40 |
| Lessons view toolbar..... | 42 |
| 5 Automatic scheduling..... | 44 |
| Weighting | 44 |
| Weighting distribution..... | 45 |
| Weighting parameters..... | 47 |
| Teachers 1 tab | 47 |
| Teachers 2 tab | 47 |
| Classes tab | 48 |
| Subjects tab | 48 |
| Main Subjects tab..... | 49 |
| Rooms tab | 50 |
| Period Distribution tab..... | 50 |
| Time requests tab..... | 51 |
| Optimisation | 52 |
| Optimisation..... | 52 |
| Evaluation | 53 |
| Diagnosis | 54 |
| 6 Manual scheduling..... | 57 |
| Shifting periods | 57 |
| Scheduling periods | 59 |
| Locking periods | 61 |
| Deleting periods | 62 |
| Allocating rooms | 63 |
| Swap suggestions | 65 |
| 7 Timetables..... | 68 |
| The timetable window | 68 |
| Timetable interaction..... | 69 |
| Locking - colours..... | 69 |
| Timetable formats | 70 |
| Timetable portrait/landscape..... | 70 |
| Class schedule big..... | 71 |
| Timetable Overview classes..... | 72 |
| Timetable Overview classes-1..... | 72 |
| Timetable layout | 73 |
| Adjusting timetable size..... | 73 |
| Standard format..... | 74 |
| Text for the lesson period..... | 75 |
| Period window | 76 |
| Adding/deleting fields..... | 77 |
| Changing field size and position..... | 79 |
| Further settings | 80 |
| Printing timetables | 80 |
| Timetable selection..... | 81 |
| Page layout..... | 81 |
| Menu bar page layout..... | 81 |
| Header and footer..... | 82 |
| Period window | 83 |
| Insert image | 83 |
| Individual timetables page layout..... | 84 |
| Overview timetable details..... | 87 |
| Timetables in HTML format..... | 90 |
| 8 Lists | 90 |

| | |
|-------------------------------------|-----------|
| Class lists | 91 |
| Teachers of the class | 91 |
| Period time requests | 92 |
| Day time requests | 92 |
| Unspecified day requests | 92 |
| Time request: Teachers of the class | 93 |
| Teacher lists | 93 |
| Period time requests | 94 |
| Day time requests | 94 |
| Unspecified additional day requests | 95 |
| Room lists | 95 |
| Period time requests | 95 |
| Subject lists | 96 |
| Timetable | 97 |
| Period time requests | 97 |

II Cover Planning Express 98

| | |
|--------------------------------------|------------|
| 1 Example | 99 |
| 2 Settings | 101 |
| Activating cover scheduling mode | 101 |
| Time grid | 102 |
| Absence reasons | 103 |
| 3 Calendar | 104 |
| Details window calendar | 105 |
| Daily comments tab | 106 |
| Calendar day tab | 108 |
| 4 Entering absences | 108 |
| Filtering and printing absences | 111 |
| 5 Substitutions window | 112 |
| Processing substitutions | 114 |
| Cancellation | 114 |
| Substitution | 115 |
| Supervision | 117 |
| Room replacement | 117 |
| 6 Suggestion | 119 |
| Supervision suggestion | 122 |
| Automatic substitution optimisation | 123 |
| 7 Scheduling in the timetable | 124 |
| Moving periods | 124 |
| Swapping periods | 127 |
| Cancelling periods | 128 |
| Special duties | 128 |
| Room replacement - room change | 131 |
| 8 Scheduling dialogue | 131 |
| 9 Printing substitutions | 134 |
| 10 Terms | 135 |
| Opening a new Term | 136 |
| Embedding a Term | 139 |
| 11 Entering holidays | 140 |

| | |
|---|------------|
| III Settings and menu navigation | 141 |
| 1 The menu..... | 142 |
| 2 Folding the menu..... | 142 |
| 3 File tab..... | 143 |
| 4 Settings..... | 144 |
| School date | 144 |
| Miscellaneous | 145 |
| Reports | 149 |
| Index | 151 |

1 Timetable

1.1 Introduction

The purpose of this brochure is to offer a fast, uncomplicated introduction to Untis Express. This manual should help you to create your school's timetable within a very short period and to perform day-to-day [Cover scheduling](#).

Please bear in mind when working with the application for the first time that entering initial data ([Teachers](#) , [Classes](#) , [Rooms](#) , [Lessons](#) etc.) will take a relatively long period of time, but that when you come to create new timetables you will be able to work with the same basic data and will therefore only need to enter changes that occur at your school from year to year (e.g. changes in staffing, subject allocation etc.).

Before you actually start creating timetables, we would first like to provide some information on [Installation](#) , [Licencing](#) , [Online help](#) , the [Welcome screen](#) , [Demo files](#) and the [Data entry wizard](#).

1.1.1 Installation

Insert the installation CD into your CD ROM drive. If the installation procedure does not start automatically, Double-click on the file ' *SetupExpress2015.exe* ' to start the setup process. The setup wizard will then guide you through the installation of Untis Express.

Warning: Administrator rights

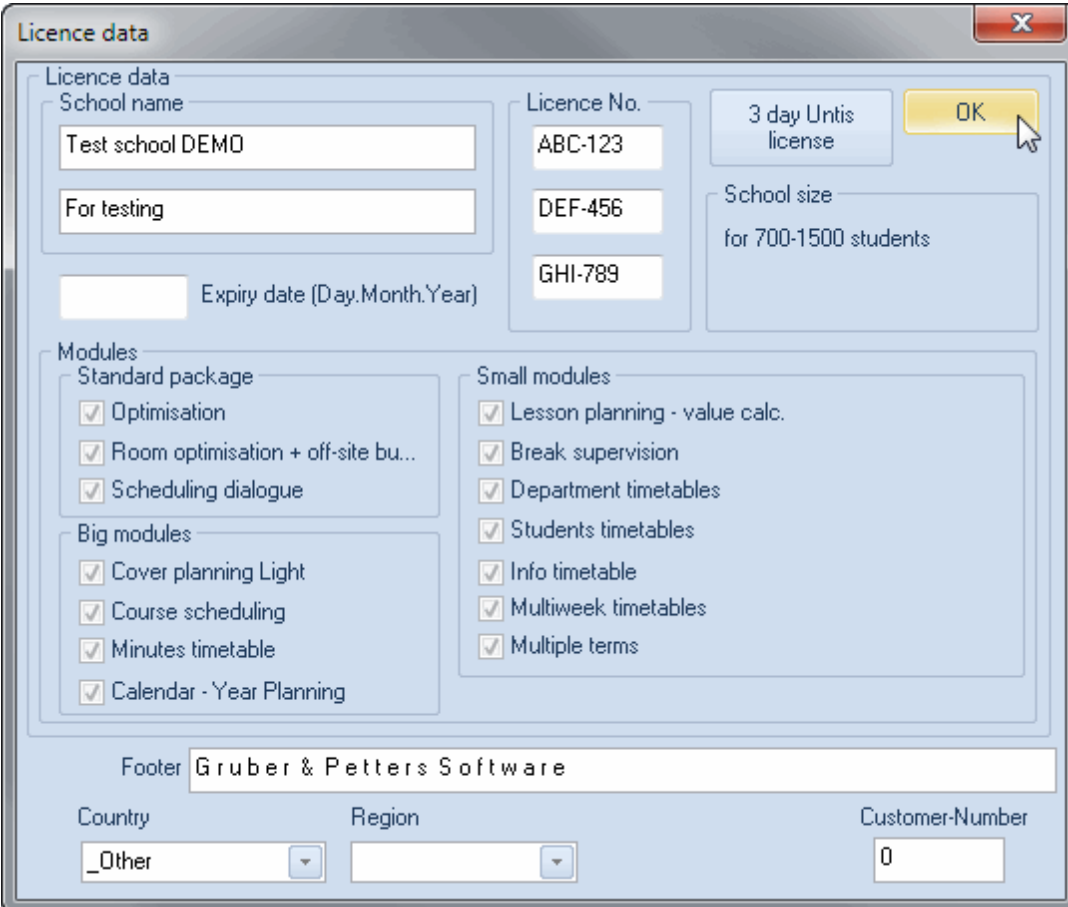
Please ensure that you have administrator rights when you install Untis and open the application of the first time. You will then be able to work with Untis as an unrestricted user.

We recommend that you do not change the default installation path. On an English-language Windows system with administrator rights this will be, for example C:\Program Files\Untis.

The setup wizard will inform you as soon as installation is complete. From now on you can launch Untis by clicking on the application icon that has been placed on your desktop.

1.1.2 Entering licence data

When you go to the tab 'File' and select 'New', you will be prompted to enter your licence data. (Your [Untis partner](#) will have provided you with a document containing your licence numbers.)



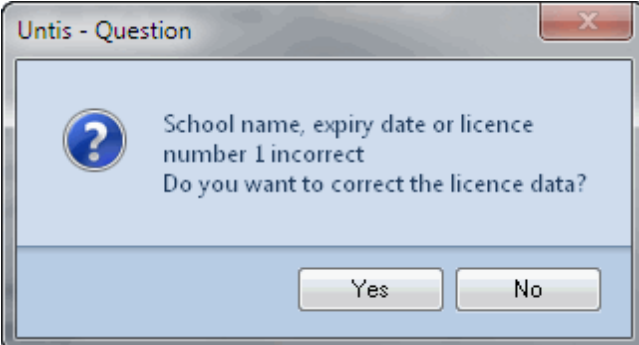
The 'Licence data' dialog box contains the following fields and options:

- Licence data**
 - School name: Test school DEMO
 - For testing: For testing
 - Expiry date (Day.Month.Year):
- Licence No.**
 - ABC-123
 - DEF-456
 - GHI-789
- 3 day Untis license** (button)
- School size**
 - for 700-1500 students
- OK** (button)
- Modules**
 - Standard package**
 - ☒ Optimisation
 - ☒ Room optimisation + off-site bu...
 - ☒ Scheduling dialogue
 - Big modules**
 - ☒ Cover planning Light
 - ☒ Course scheduling
 - ☒ Minutes timetable
 - ☒ Calendar - Year Planning
 - Small modules**
 - ☒ Lesson planning - value calc.
 - ☒ Break supervision
 - ☒ Department timetables
 - ☒ Students timetables
 - ☒ Info timetable
 - ☒ Multiweek timetables
 - ☒ Multiple terms
- Footer**
 - Gruber & Petters Software
- Country**
 - _Other
- Region**
 -
- Customer-Number**
 - 0


Please make sure to enter the licence data correctly and confirm with <OK>.

Incorrect licence data

If you have a temporary licence you will also have to enter an expiry date. If the message



The 'Untis - Question' dialog box displays the following message:


 School name, expiry date or licence number 1 incorrect
 Do you want to correct the licence data?

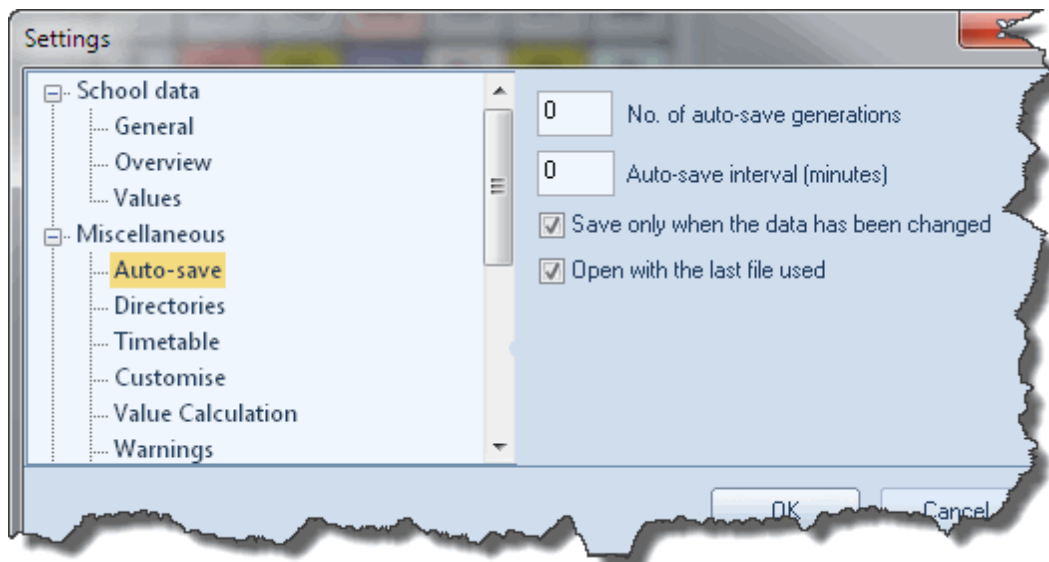
Buttons: Yes, No

is displayed, check your input with the details on the licence data document and correct the entry. Please note that the entry is not case-sensitive, however all characters of the two lines of the school name, the licence number and expiry date must be entered exactly as they appear on the document. Confirm your entries with <Yes>. You will only be able to create a file for your own school after the

licence data have been entered correctly.

1.1.3 Automatic save

You can use the menu item "Settings | Miscellaneous | Auto-save" to specify how frequently Untis should automatically save data and how many backup generations should be archived. The settings in the figure mean, for example, that Untis should save the data every 30 minutes and use four generations of backup. These data are saved in files named save1.gpn, save2.gpn, save3.gpn and save4.gpn. The most current data are always in file save1.gpn and the oldest in file save4.gpn.



If you check the field "Open with the last file used", Untis will always load the last file to be processed when opening. You can suppress this function when you launch the application by holding the <Shift> key when opening.

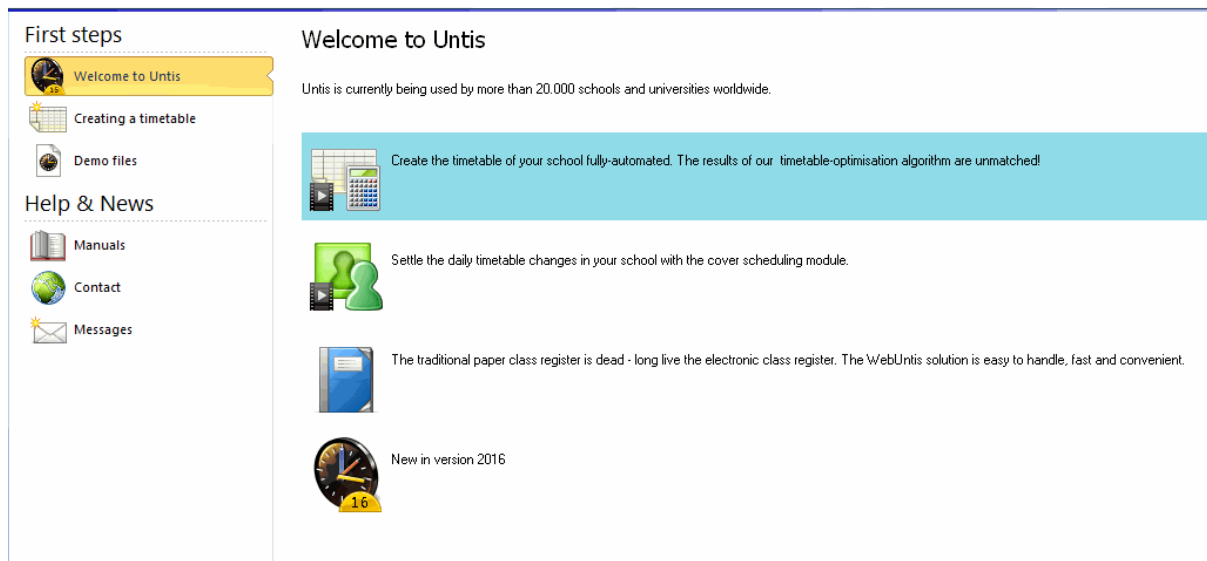
1.1.4 Help functions

If you need general help at any point in time, press <F1> to display help information and select 'Contents'. You will then find a manual providing detailed information on all topics.

However, if you require specific information on e.g. a particular button or input field, activate the respective field and press <F1>.

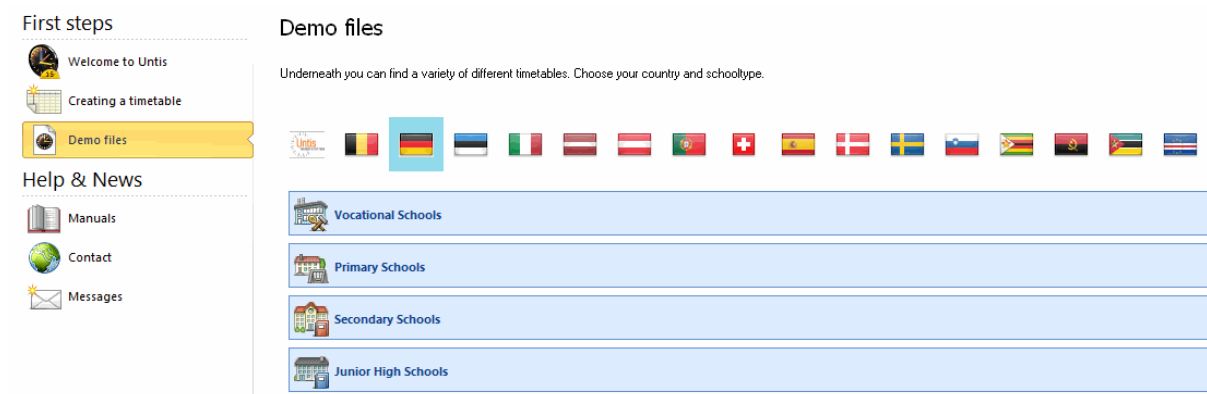
1.1.5 Welcome screen

When you launch Untis Express for the first time you will be greeted by a welcome screen.



The welcome screen gives you access to information in the form of interactive flash demos on the application and on what is new in the current version of Untis. You can also view all manuals and launch the [data entry wizard](#) .

Untis is deployed in a large number of countries. Take advantage of our international demo files to gain an overview of the possible uses of Untis.



1.1.6 Demo files

The demo files are intended to help you to get to know the functions and possible data entry scenarios in Untis. They already contain licencing and school data. There are two types of demo file in Untis:

- Actual school data that are typical of a certain type of school in a specific country. These files can be opened, for example from the [Welcome screen](#) .
- Simple files with different areas of focus that allow you to get to know the basic features of Untis without being overwhelmed by masses of data. You will find this data in the public Windows Documents file (e.g. Windows 8: C:\Users\Public\Documents\Untis. This manual generally draws on the file demo.gpn for examples in this manual.

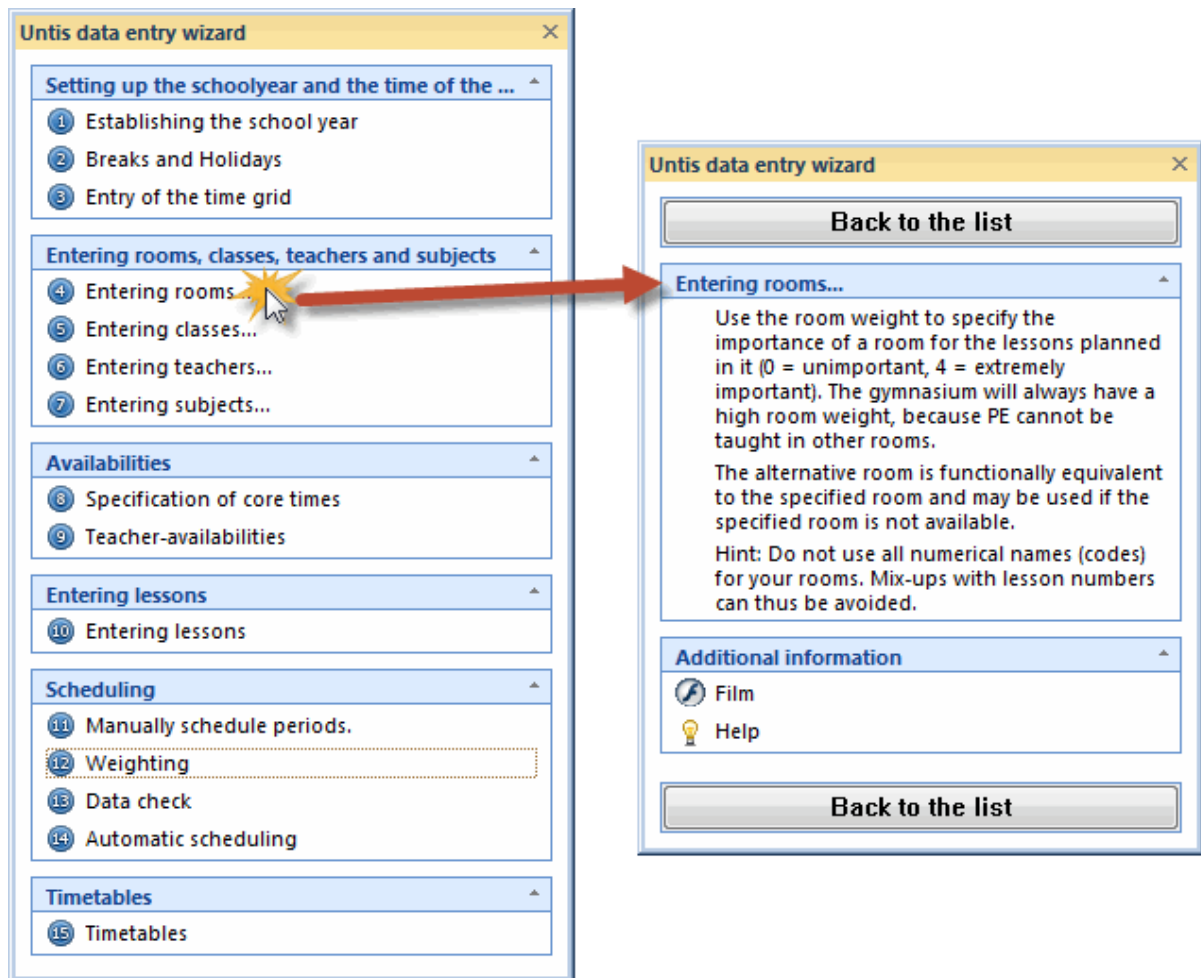
1.1.7 Data entry wizard

There are two ways of invoking the data entry wizard:

1. via the button 'Data entry wizard' under the tabs 'Start' or 'Data'
2. via the 'Create timetable' option in the welcome screen

The data entry wizard is intended to help you set up your timetable. The individual tasks should be completed chronologically. When you select a task, the corresponding window will open and brief information will be displayed on the topic.

You also have the opportunity to view a flash demo or to read the relevant chapter in the help function.



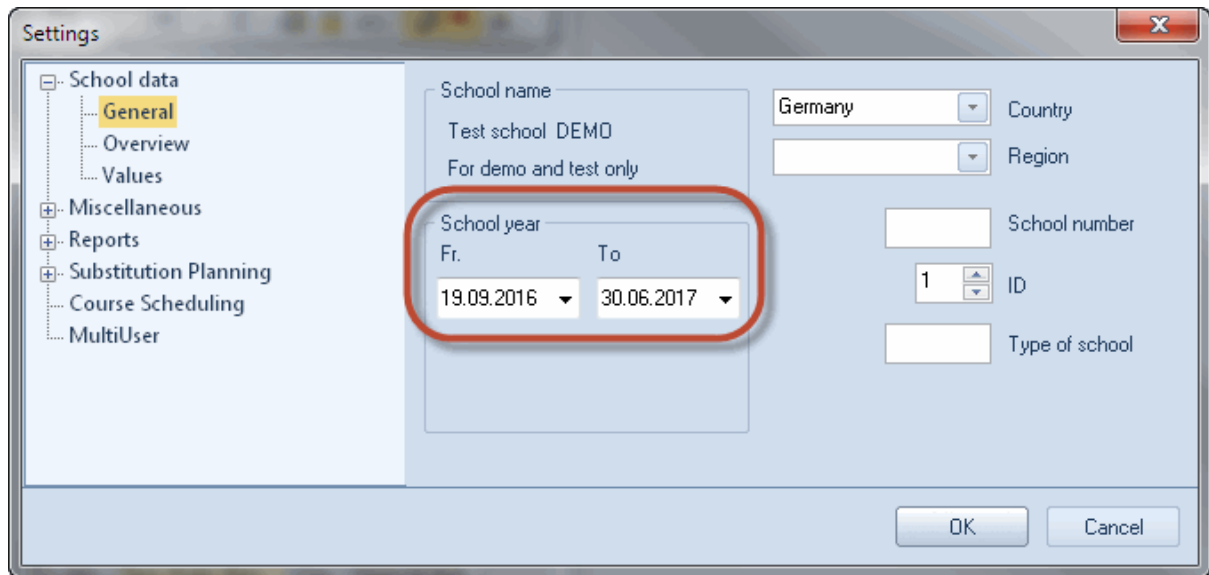
1.2 Basic data

All windows that are displayed in the [data entry wizard](#) can also be accessed via the corresponding menu item. The first block include the following:

- [the school year](#)
- [the time grid](#) and [the lunch break](#)
- [school holidays](#)

1.2.1 School year

Enter the duration of the school year under "Settings | School data". Do not include the summer holidays in your school year. Confirm your input with <OK>.



The screenshot shows a 'Settings' window with a tree view on the left containing 'School data', 'Miscellaneous', 'Reports', 'Substitution Planning', 'Course Scheduling', and 'MultiUser'. The 'School data' section is expanded, showing 'General', 'Overview', and 'Values' sub-items. The 'General' tab is selected. The main area contains several fields: 'School name' (Test school DEMO), 'Country' (Germany), 'Region' (empty), 'School number' (empty), 'ID' (1), and 'Type of school' (empty). The 'School year' section is highlighted with a red circle and contains two dropdown menus: 'Fr.' (19.09.2016) and 'To' (30.06.2017). At the bottom are 'OK' and 'Cancel' buttons.

1.2.2 Time grid

If you go to the tab 'Data' and click on the button 'Time grid' you can specify on how many days in the week lessons are held, how many periods per day are used for teaching and which of these periods are probably regarded as morning or afternoon periods.

The following times have been entered for the school in the example below:

- 5 days per week (Monday to Friday)
- 8 periods per day
- a maximum of 3 afternoon periods per day
- no lessons on Friday afternoons

Time grid

General Breaks Substitute

5 Number of days (1 to 7)

8 Maximum number of periods per day (1 to 60)

Monday First school day of the week

Entry: Morning Free Afternoon

| Period number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 8:00 | 8:55 | 9:50 | 10:45 | 11:40 | 12:35 | 13:30 | 14:25 |
| | 8:45 | 9:40 | 10:35 | 11:30 | 12:25 | 13:20 | 14:15 | 15:10 |
| Monday | Mornii | Mornii | Mornii | Mornii | Mornii | Aftern | Aftern | Aftern |
| Tuesday | Mornii | Mornii | Mornii | Mornii | Mornii | Aftern | Aftern | Aftern |
| Wednesday | Mornii | Mornii | Mornii | Mornii | Mornii | Aftern | Aftern | Aftern |
| Thursday | Mornii | Mornii | Mornii | Mornii | Mornii | Aftern | Aftern | Aftern |
| Friday | Mornii | Mornii | Mornii | Mornii | Mornii | | | |

OK Cancel Apply

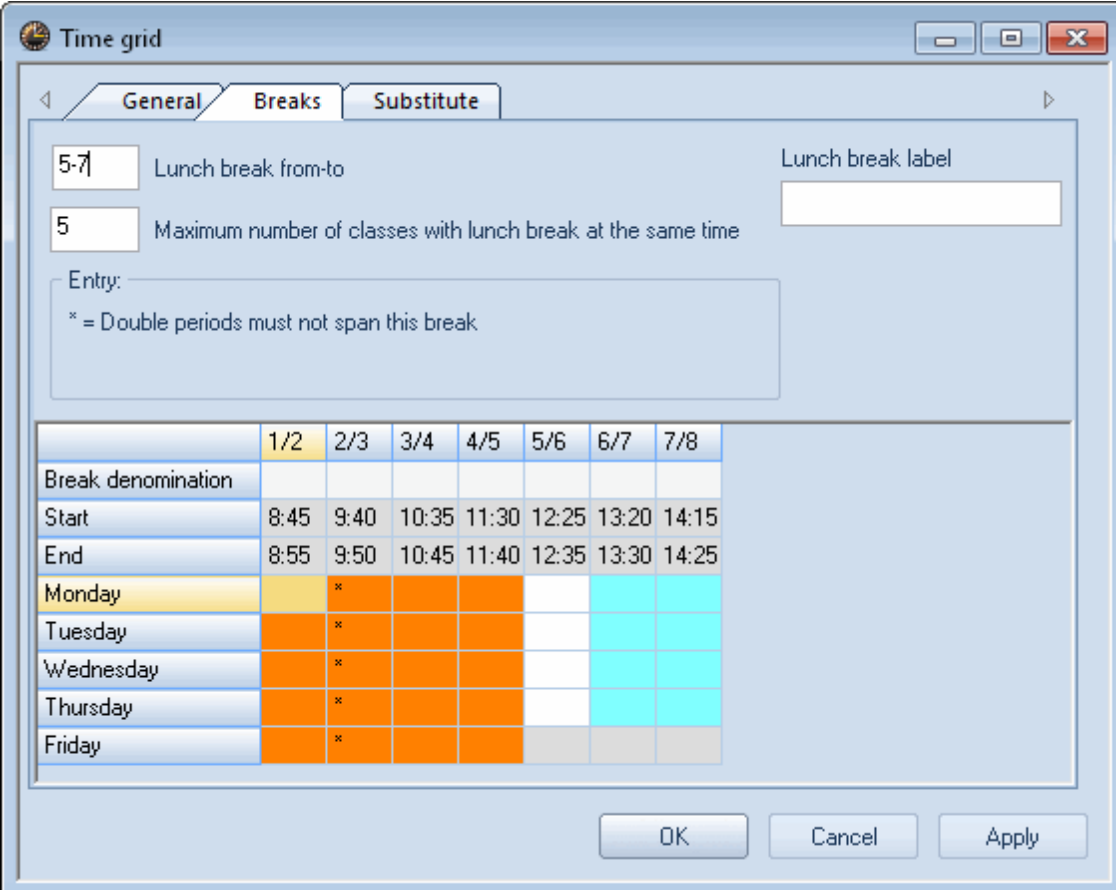
The 8 periods per day are divided into 5 morning and 3 afternoon periods. This distinction between morning and afternoon periods is important for the position of a possible [lunch break](#) and can in turn also influence when lessons are scheduled depending on additional settings.

Enter the length of each period in the relevant fields below the period in the grid. This allows you to enter different durations for afternoon or evening periods. It is also possible to enter a break for the entire school between the last period of the morning and the first period of the afternoon.

1.2.3 Lunch break

Any lunch break is automatically placed in the last period of the morning and/or the first period of the afternoon. You can influence the position of the lunch break on the 'Breaks' tab on the ' [Time grid](#) ' by selecting the first and last periods that can serve as lunch break. The length of the break between morning and afternoon lessons is specified at a later point in time (e.g. 1-2 periods depending on the class).

The example shows that the 5th period is the first that can be used as lunch break and the 7th period is the last. The lunch break must always lie on the boundaries or across the boundaries between morning and afternoon. The white fields indicate those breaks lying between the last period of the morning and the first period of the afternoon. It is also possible to specify the maximum number of classes that can have their lunch break at the same time plus the title of the lunch break in the timetable.



Time grid

Breaks

Lunch break from-to: 5-7

Maximum number of classes with lunch break at the same time: 5

Lunch break label:

Entry: *

* = Double periods must not span this break

| | 1/2 | 2/3 | 3/4 | 4/5 | 5/6 | 6/7 | 7/8 |
|--------------------|------|------|-------|-------|-------|-------|-------|
| Break denomination | | | | | | | |
| Start | 8:45 | 9:40 | 10:35 | 11:30 | 12:25 | 13:20 | 14:15 |
| End | 8:55 | 9:50 | 10:45 | 11:40 | 12:35 | 13:30 | 14:25 |
| Monday | | * | | | | | |
| Tuesday | | * | | | | | |
| Wednesday | | * | | | | | |
| Thursday | | * | | | | | |
| Friday | | * | | | | | |

OK Cancel Apply

Note: Double period and break

If an * is entered for a break, as in the example between the second and the third period, a double period may not span the break.

1.2.4 School holidays

Under the tab 'Data' there is the button 'School holidays' where you specify when there will be no lessons due to school holidays or public holidays for the whole school in the current school year.

School Holidays

| Name | Full name | From | To | Next week (A,B,...) | No. of subsequent school |
|---------------|---------------------|------------|------------|---------------------|--------------------------|
| Holiday 1 | Christmas Holiday | 24.12.2016 | 08.01.2017 | | |
| 25.12. | 25.12.2016 | 25.12.2016 | 25.12.2016 | | |
| School Holid. | 22.1.2017-22.1.2017 | 22.01.2017 | 22.01.2017 | | |

☐ No lessons
☒ Public holiday

Legend: Breaks, Holiday, Weekend
 School Year

| | Mo | Tu | We | Th | Fr | Sa | Su | Mo | Tu | We | Th | Fr | Sa | Su | Mo | Tu | We | Th | Fr | Sa | Su | Mo | Tu | We | Th | Fr | Sa | Su | Mo | Tu | We | Th | Fr | Sa | Su |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| September | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| October | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| November | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| December | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| January | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| February | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| April | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| May | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| June | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

General data
 School year: Number of days: 285 Number of weeks: 41 Number of school holidays: 2
 Lessons: Number of days: 245 Number of weeks: 41 Number of free days due to: Number of public holidays:

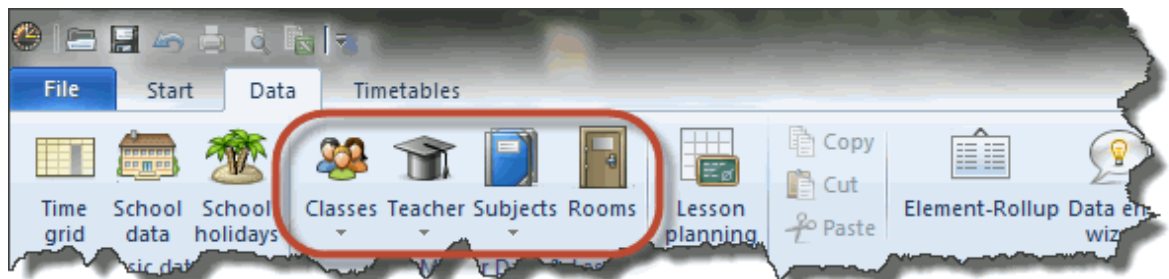
OK Cancel Apply

School holidays are important, if you use the cover scheduling function for daily changes in the timetable. School holiday and public holiday entries are also considered in calculating the weightings of the lessons for the teachers in the value calculation. However, they do not have any impact on the optimisation of the timetable.

1.3 Master data

Master data refer to all school-specific resources in Untis which are essential for the creation of the timetable. These include [Rooms](#), [Classes](#), [Teachers](#) and [Subjects](#)

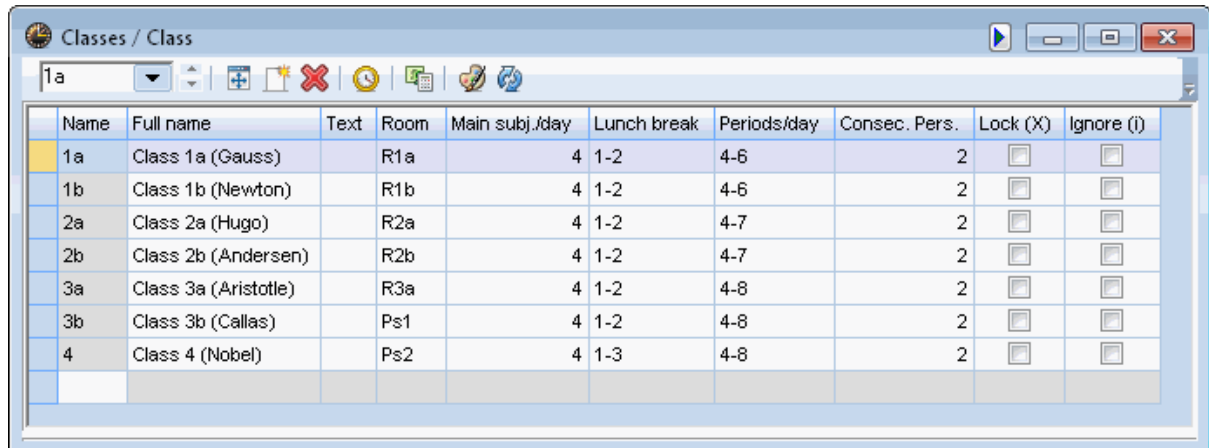
Master data can be called up via the menu items 'Master Data | Classes', 'Master Data | Teachers' etc.



1.3.1 Master data maintenance

Creating a new master data element

You can create a new element (e.g. a new class) in the master data window by clicking into the last (empty) row in the grid and entering a short and a full name. When you click on the <New> button the cursor automatically gets to this row.



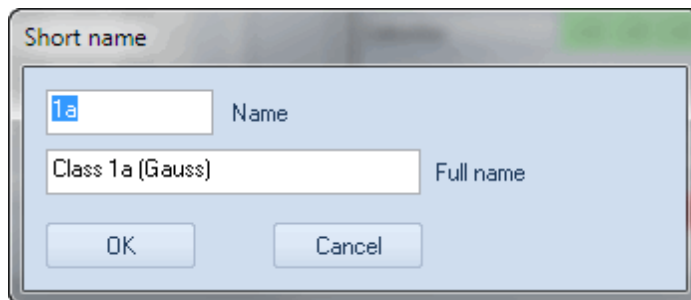
The screenshot shows a window titled 'Classes / Class' with a toolbar and a table. The table has the following columns: Name, Full name, Text, Room, Main subj./day, Lunch break, Periods/day, Consec. Pers., Lock (X), and Ignore (I). The data rows are as follows:

| Name | Full name | Text | Room | Main subj./day | Lunch break | Periods/day | Consec. Pers. | Lock (X) | Ignore (I) |
|------|----------------------|------|------|----------------|-------------|-------------|---------------|--------------------------|--------------------------|
| 1a | Class 1a (Gauss) | | R1a | 4 | 1-2 | 4-6 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 1b | Class 1b (Newton) | | R1b | 4 | 1-2 | 4-6 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2a | Class 2a (Hugo) | | R2a | 4 | 1-2 | 4-7 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2b | Class 2b (Andersen) | | R2b | 4 | 1-2 | 4-7 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3a | Class 3a (Aristotle) | | R3a | 4 | 1-2 | 4-8 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3b | Class 3b (Callas) | | Ps1 | 4 | 1-2 | 4-8 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Class 4 (Nobel) | | Ps2 | 4 | 1-3 | 4-8 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | | | |

You can switch between the individual fields using the <Tab> key.

Changing the short name

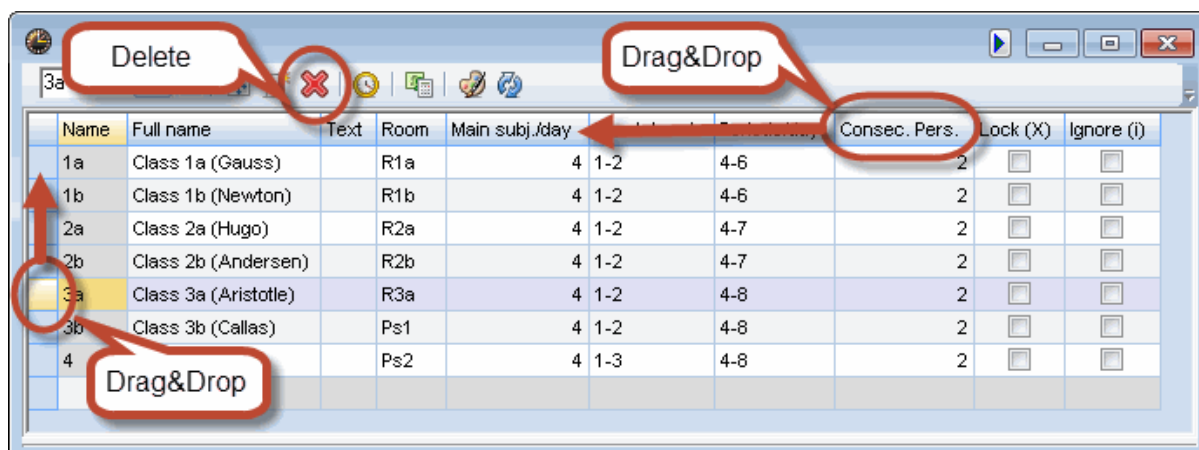
You can change the short name by double clicking on it to open a separate window. You can mark and change all other data (e.g. full name) by simply clicking on them in the grid view.



The screenshot shows a dialog box titled 'Short name'. It contains two text input fields. The first field is labeled 'Name' and contains the text '1a'. The second field is labeled 'Full name' and contains the text 'Class 1a (Gauss)'. At the bottom of the dialog box, there are two buttons: 'OK' and 'Cancel'.

Element löschen

You can delete a master data element by activating/marking the respective row and clicking on the <Delete> button.



Sort order

If you wish to rearrange a master data element click on the first (grey) column of the element that you wish to rearrange and hold the left mouse button down. Now drag the element to the desired position in the list.

You can also change the order of the columns using drag&drop.

1.3.2 Entries for all master data and lessons

Some fields and functions can be found in (almost) all types of master data and in lessons.

| Lock (X) | Ignore (I) | Text |
|--------------------------|--------------------------|------|
| <input type="checkbox"/> | <input type="checkbox"/> | |
| <input type="checkbox"/> | <input type="checkbox"/> | Text |

Lock (X)

A lesson containing an element that is locked will be "frozen" in the timetable. Already scheduled periods will not be rearranged in a subsequent optimisation.

Ignore (i)

A lesson containing a master data element marked "Ignore" will be ignored in the timetable, i.e. it cannot be scheduled or displayed.

Text

An explanatory text can be entered for each element.

Blocking

If an element is not available in a certain period you can block it using time requests. This means that optimisation will not schedule a lesson with the respective element in this period.

Select the appropriate period of time and enter the time request -3, which corresponds to an absolute block.

You can use the serial change function to apply this time request easily to other elements.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------|----|----|----|----|----|----|----|----|
| Monday | | | | | -3 | -3 | -3 | -3 |
| Tuesday | | | | | | | | |
| Wednesday | | | | | -3 | -3 | -3 | -3 |
| Thursday | | | | | | | | |
| Friday | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 |
| Saturday | | | | | | | | |

Defining time requests for [Classes](#) and [Teachers](#) may prove more difficult. You will find the explanation in the appropriate chapter.

1.3.3 Serial change

You can change more than one row in a column with just one entry. For example, perform the following in order to change the number of consecutive periods of main subjects in:

1. Hold the left mouse pressed to select the classes where you wish to make the entry.
2. Enter the desired value.
3. Confirm with <Enter> or <TAB>.

| Name | Full name | Room | Main subj./day | Lunch break | Periods/day | Consec. Pers. | Lock (X) | Ignore (I) | Text |
|------|----------------------|------|----------------|-------------|-------------|---------------|--------------------------|--------------------------|------|
| 3a | Class 3a (Aristotle) | R3a | 4 | 1-2 | 4-8 | | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3b | Class 3b (Callias) | Ps1 | 4 | 1-2 | 4-8 | | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4 | Class 4 (Nobel) | Ps2 | 4 | 1-3 | 4-8 | | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2a | Class 2a (Hugo) | R2a | 4 | 1-2 | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2b | Class 2b (Andersen) | R2b | 4 | 1-2 | | | <input type="checkbox"/> | <input type="checkbox"/> | |
| 1b | Class 1b (Newton) | R1b | | | | | <input type="checkbox"/> | <input type="checkbox"/> | Text |
| 1a | Class 1a (Gauss) | R1a | | | | | <input type="checkbox"/> | <input type="checkbox"/> | |

1.3.4 Rooms

Each master data element is uniquely described with a name and a full name.



| Name | Full name |
|------|---------------|
| SH1 | Sports Hall 1 |
| SH2 | Sports Hall 2 |
| PL | Physics lab. |
| WS | Workshop |

Room name

Select an appropriate abbreviation that uniquely describes the room in your school. For example SH1 for sports hall 1 or R10 for class room number 10.

Room full name

Enter a full name which describes the room in more detail.

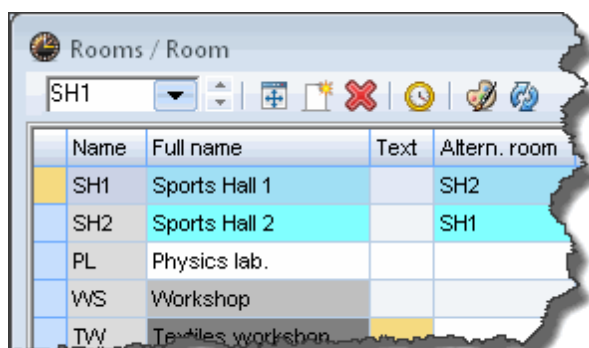
Tip: Room names

We recommend that you include at least one character in each room name and do not use numbers exclusively (e.g. R10 instead of 10). This helps to avoid confusion with possible classes of the same name and increases the legibility of the timetable or cover schedule. Rooms should not be given the same names as classes (e.g. R1a for class 1a's classroom) as this would mean having to rename the rooms each school year.

You should enter [alternative rooms](#) and [room weightings](#) for automated scheduling.

1.3.4.1 Alternative rooms

The alternative room is used for scheduling lessons if the room originally desired is already booked. In our example SH1 is the alternative room of SH2 (and vice versa).

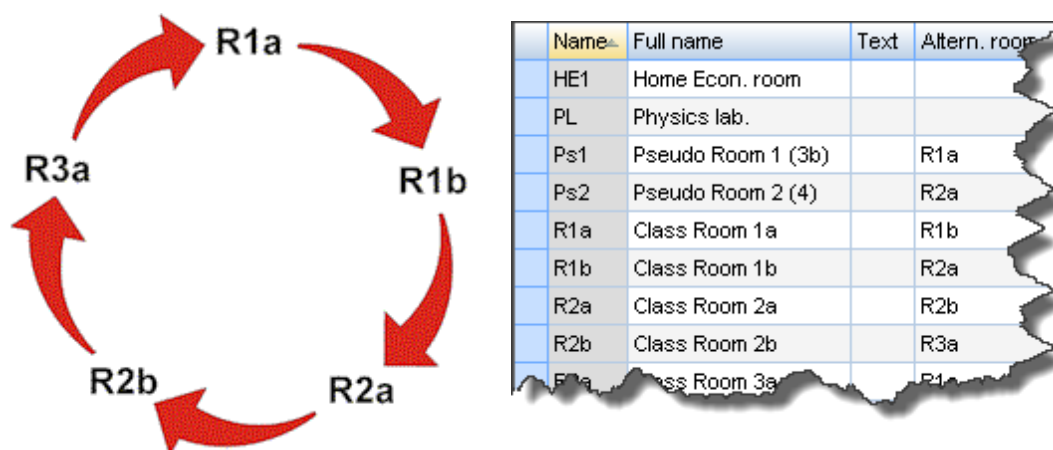


| Name | Full name | Text | Altern. room |
|------|-------------------|------|--------------|
| SH1 | Sports Hall 1 | | SH2 |
| SH2 | Sports Hall 2 | | SH1 |
| PL | Physics lab. | | |
| WS | Workshop | | |
| TW | Textiles workshop | | |

Rings of alternative rooms

You may string functionally equivalent rooms together in such a way that they form a ring of

alternative rooms. This has already been entered in the example. The alternative room for R1a is R1b, the one for R1b is R2a and so on until the ring is closed.



If, during an optimisation run, it turns out that the desired room for a lesson (e.g. R1b) is already occupied, then the next rooms in the ring (R2a ...) will be checked until a free room is found in the ring.

These rings of alternative rooms make it possible to easily model the "geographical" circumstances of the school by having the sequence of alternative rooms reflect the position of the individual rooms to each other. You can thus save teachers and students wasting time moving between rooms when the neighbouring rooms are located next to each other in the ring.

1.3.4.2 Room weighting

The room weighting specifies the importance of a room for the lessons which are to be scheduled in it.

A room weighting of 0 means that the lesson will be scheduled during automatic scheduling even when there is no room or alternative room available. A room weighting of 4 signifies that scheduling the lesson only makes sense if the desired room (or one of the alternative rooms) is available. Physical education lessons, for example, only make sense if one of the sports halls is free, and cookery only makes sense if the kitchen is available, whereas maths may be taught in any room of the school which happens to be free.

Rooms / Room

| Name | Full name | Altern. room | Rm. Weight |
|------|--------------------|--------------|------------|
| SH1 | Sports Hall 1 | SH2 | 4 |
| SH2 | Sports Hall 2 | SH1 | 4 |
| PL | Physics lab. | | 3 |
| WS | Workshop | | 3 |
| TW | Textiles workshop | | 4 |
| HE1 | Home Econ. room | | 4 |
| R1a | Class Room 1a | R1b | 2 |
| R1b | Class Room 1b | R2a | 2 |
| R2a | Class Room 2a | R2b | 2 |
| R2b | Class Room 2b | R3a | 2 |
| R3a | Class Room 3a | R1a | 2 |
| Ps1 | Pseudo Room 1 (3b) | R1a | 2 |

Room

1.3.4.3 Classes without designated rooms

If it proves necessary to form classes without designated rooms, you can use the method of pseudo rooms. You can do this by simply assigning a fictitious room, a pseudo room to the respective class and blocking this room for every period of the week (using time request "-3").

Classes / Class

| Name | Full name | Text | Room | Main |
|------|----------------------|------|------|------|
| 1a | Class 1a (Gauss) | | R1a | |
| 1b | Class 1b (Newton) | | R1b | |
| 2a | Class 2a (Hugo) | | R2a | |
| 2b | Class 2b (Andersen) | | R2b | |
| 3a | Class 3a (Aristotle) | | R3a | |
| 3b | Class 3b (Callas) | | Ps1 | |
| 4 | Class 4 (Nobel) | | Ps2 | |

Rooms / Room

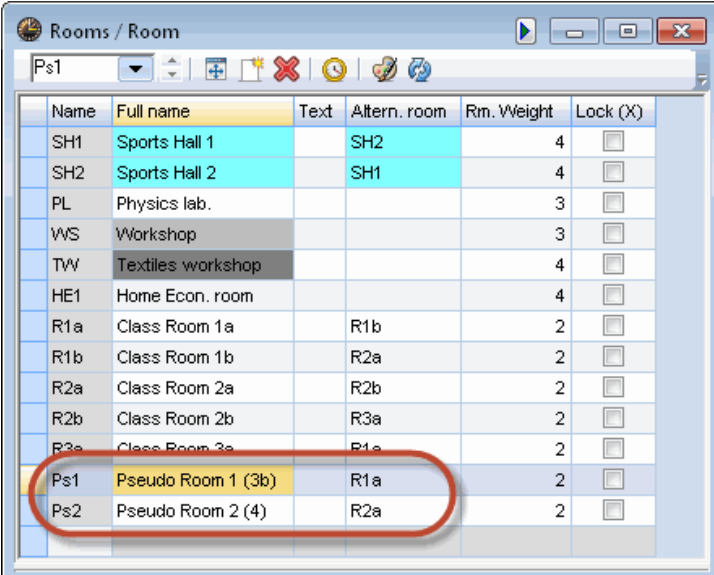
| Name | Full name | Text | Altern. room | Rm. Weight | Lock (X) |
|------|--------------------|------|--------------|------------|----------|
| SH1 | Sports Hall 1 | | | | |
| SH2 | Sports Hall 2 | | | | |
| PL | Physics lab. | | | | |
| WS | Workshop | | | | |
| TW | Textiles workshop | | | | |
| HE1 | Home Econ. room | | | | |
| R1a | Class Room 1a | | | | |
| R1b | Class Room 1b | | | | |
| R2a | Class Room 2a | | | | |
| R2b | Class Room 2b | | | | |
| R3a | Class Room 3a | | | | |
| Ps1 | Pseudo Room 1 (3b) | | | | |
| Ps2 | Pseudo Room 2 (4) | | | | |

Time requests / Room

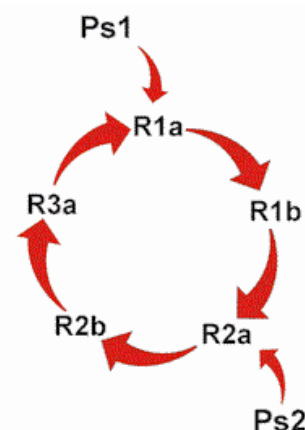
Ps1 Pseudo Room 1 (3b)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------|----|----|----|----|----|----|----|----|
| Monday | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 |
| Tuesday | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 |
| Wednesday | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 |
| Thursday | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 |
| Friday | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 |
| Saturday | -3 | -3 | -3 | -3 | -3 | | | |

Enter a room in your [classroom ring](#) as the [alternative](#) room for the pseudo room. Untis will now search for a suitable room for your class with no designated room.

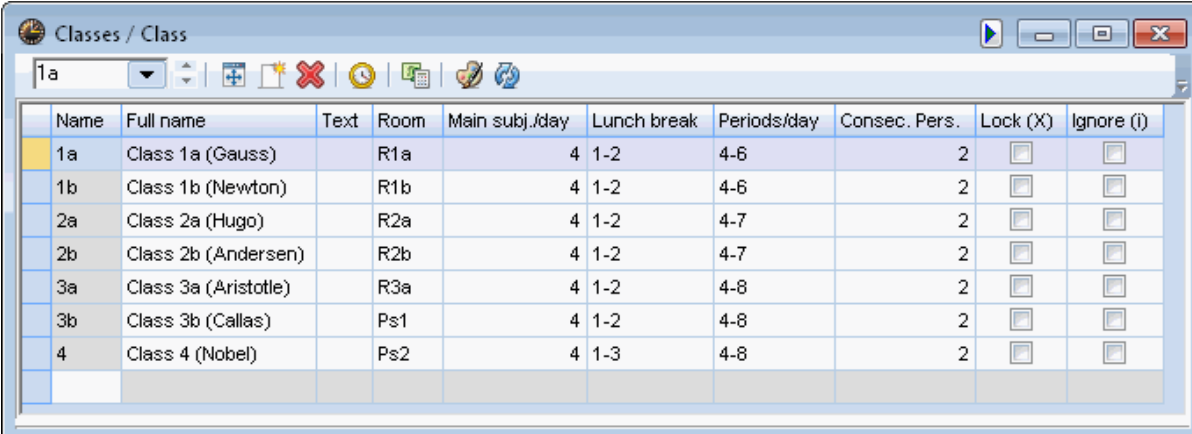


| Name | Full name | Text | Altern. room | Rm. Weight | Lock (X) |
|------|--------------------|------|--------------|------------|--------------------------|
| SH1 | Sports Hall 1 | SH2 | | 4 | <input type="checkbox"/> |
| SH2 | Sports Hall 2 | SH1 | | 4 | <input type="checkbox"/> |
| PL | Physics lab. | | | 3 | <input type="checkbox"/> |
| WS | Workshop | | | 3 | <input type="checkbox"/> |
| TW | Textiles workshop | | | 4 | <input type="checkbox"/> |
| HE1 | Home Econ. room | | | 4 | <input type="checkbox"/> |
| R1a | Class Room 1a | R1b | | 2 | <input type="checkbox"/> |
| R1b | Class Room 1b | R2a | | 2 | <input type="checkbox"/> |
| R2a | Class Room 2a | R2b | | 2 | <input type="checkbox"/> |
| R2b | Class Room 2b | R3a | | 2 | <input type="checkbox"/> |
| R3a | Class Room 3a | R1a | | 2 | <input type="checkbox"/> |
| Ps1 | Pseudo Room 1 (3b) | R1a | | 2 | <input type="checkbox"/> |
| Ps2 | Pseudo Room 2 (4) | R2a | | 2 | <input type="checkbox"/> |



1.3.5 Classes

A unique (short) name must also be given to each class. The full name field can also contain the class teacher in addition to the name. You will then see this, for instance, printed on all reports of this class.



| Name | Full name | Text | Room | Main subj./day | Lunch break | Periods/day | Consec. Pers. | Lock (X) | Ignore (I) |
|------|----------------------|------|------|----------------|-------------|-------------|---------------|--------------------------|--------------------------|
| 1a | Class 1a (Gauss) | | R1a | 4 | 1-2 | 4-6 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 1b | Class 1b (Newton) | | R1b | 4 | 1-2 | 4-6 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2a | Class 2a (Hugo) | | R2a | 4 | 1-2 | 4-7 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2b | Class 2b (Andersen) | | R2b | 4 | 1-2 | 4-7 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3a | Class 3a (Aristotle) | | R3a | 4 | 1-2 | 4-8 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3b | Class 3b (Callas) | | Ps1 | 4 | 1-2 | 4-8 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Class 4 (Nobel) | | Ps2 | 4 | 1-3 | 4-8 | 2 | <input type="checkbox"/> | <input type="checkbox"/> |

Tip: Tool tip

If you would like to have more information on a column, position the cursor over the column heading and a short description of the field will be displayed.

Room

The short name of a room for those classes which have their own room is entered in the field 'Room'. If you now create a lesson for this class, the room will be entered automatically. This saves a lot of manual input.

Main subjects per day

Subjects which are particularly demanding or important for the students can be marked as [<Main subject>](#) by going to [Master data | Subjects](#) . In the column 'Main subj./day' you can specify how many main subjects may be taught per day.

Lunch break min, max

Enter the minimum (min) and maximum (max) length of the lunch break for each individual class. If the lunch break is to last exactly one hour, enter '1-1'. If you rely on Untis to schedule no or a two hour lunch break, then you need to enter '0-2'. If you want the class to have no lunch break at all, leave the field empty.

Which periods are in general suitable for lunch breaks can be defined under 'Data', 'Timegrid' - go to the 'Breaks' tab (please refer to chapter [Lunch break](#)).

Periods per day

You can specify here how many periods the respective class should be taught per day at a minimum (min) and how many lesson units may be allocated to one day at a maximum (max).

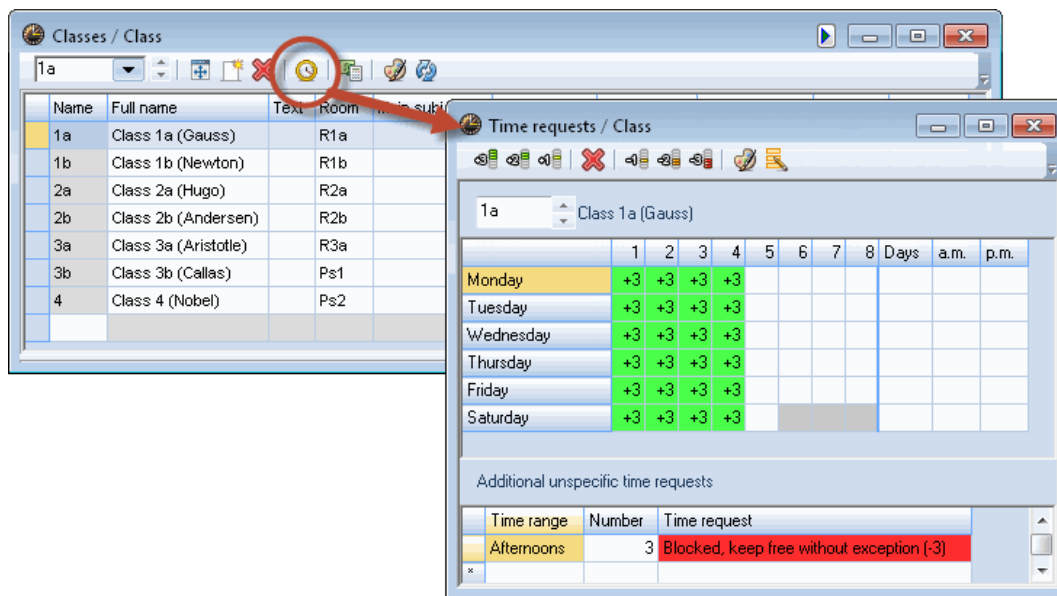
You should enter "4-6" if you wish to have the class taught for a minimum of 4 periods and a maximum of 6 periods each day.

Consecutive periods of main subjects

You can use this column to specify the number of [main subjects](#) that can be taught to a class consecutively. You can specify how important this point is for you via [weighting](#).

1.3.5.1 Time requests for classes

Untis offers you the possibility to enter an individual time request relating to each element i.e. to [teachers](#) , [classes](#) , [rooms](#) and [subjects](#)) as well as to each period of the day and for each day of the week. The options range from "-3" (do not schedule lessons here under any circumstances) to "+3" (schedule a lesson at all events). You can enter time requests for classes by clicking on the <Time requests> icon in the toolbar of the master data window.



The following time request entries are possible:

- [Core times](#)
- [Differentiated time requests](#)
- [Unspecified time requests](#) (these are described in chapter ' [Time requests for teachers](#) ')

1.3.5.1.1 Core times

If you want Untis to begin scheduling periods in the first period of the morning, enter a time request of +3 in the periods when lessons should take place at all costs. This was done for the 1st to the 4th periods in this example. This is known as core time. The optimisation algorithm treats violations of the core times as very serious infringements.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Days | a.m. | p.m. |
|-----------|----|----|----|----|---|---|---|---|------|------|------|
| Monday | +3 | +3 | +3 | +3 | | | | | | | |
| Tuesday | +3 | +3 | +3 | +3 | | | | | | | |
| Wednesday | +3 | +3 | +3 | +3 | | | | | | | |
| Thursday | +3 | +3 | +3 | +3 | | | | | | | |
| Friday | +3 | +3 | +3 | +3 | | | | | | | |
| Saturday | +3 | +3 | +3 | +3 | | | | | | | |

| Time range | Number | Time request |
|------------|--------|---|
| Afternoons | 3 | Blocked, keep free without exception (-3) |
| * | | |

1.3.5.1.2 Differentiated time requests

You can use the time requests "+2" to "-2" for lessons which may in principle be scheduled any time but for which you wish to set preferences. The time request for class 1b can be explained as follows:

Lessons must take place between the 1st and 4th periods at all costs. Lessons should take place in the 5th but preferably not in 6th period. There should be no lesson in the 7th period and there must be no lessons scheduled in the 8th period and on Fridays in the 5th period. You can use [weighting](#) to determine for yourself to what degree [automatic scheduling](#) should take time requests into account.

Time requests / Class

1a Class 1a (Gauss)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Days | a.m. | p.m. |
|-----------|----|----|----|----|----|----|----|----|------|------|------|
| Monday | +3 | +3 | +3 | +3 | +3 | +1 | -1 | -2 | | | |
| Tuesday | +3 | +3 | +3 | +3 | +2 | +1 | -1 | -2 | | | |
| Wednesday | +3 | +3 | +3 | +3 | +2 | +1 | -1 | -2 | | | |
| Thursday | +3 | +3 | +3 | +3 | +2 | +1 | -1 | -2 | | | |
| Friday | +3 | +3 | +3 | +3 | -3 | -3 | -3 | -3 | | | |
| Saturday | +3 | +3 | +3 | +3 | -3 | | | | | | |

Additional unspecific time requests

| Time range | Number | Time request |
|------------|--------|---|
| Afternoons | 3 | Blocked, keep free without exception (-3) |
| * | | |

1.3.6 Teachers

Teachers also need a unique short name and, optionally, a full name. This is the teacher's last name in most cases but can also contain the first and last name.

Teachers / Teacher

Gauss

| Name | Surname | Text | Room | NTPs target | Periods/day | Lunch break | Personnel No. | Consec. pers. | Lock (X) | Ignore (I) | Target/week | Value = | Actual-Target |
|--------|-----------|-----------------------------------|------|-------------|-------------|-------------|---------------|---------------|--------------------------|--------------------------|-------------|---------|---------------|
| Gauss | Gauss | | | 0-3 | 2-6 | 1-2 | | 4 | <input type="checkbox"/> | <input type="checkbox"/> | | 17.000 | 17.000 |
| New | Newton | | | 0-1 | 4-6 | 1-2 | | 5 | <input type="checkbox"/> | <input type="checkbox"/> | | 26.000 | 26.000 |
| Hugo | Hugo | | | 0-1 | 4-7 | 1-2 | | 6 | <input type="checkbox"/> | <input type="checkbox"/> | | 19.000 | 19.000 |
| Ander | Andersen | | | 0-1 | 4-6 | 1-3 | | 6 | <input type="checkbox"/> | <input type="checkbox"/> | | 27.000 | 27.000 |
| Arist | Aristotle | | | 0-1 | 4-6 | 1-2 | | 6 | <input type="checkbox"/> | <input type="checkbox"/> | | 27.000 | 27.000 |
| Callas | Callas | | | 0-1 | 4-6 | 1-2 | | 5 | <input type="checkbox"/> | <input type="checkbox"/> | | 25.000 | 25.000 |
| Nobel | Nobel | | | 0-1 | 4-6 | 1-2 | | 5 | <input type="checkbox"/> | <input type="checkbox"/> | | 15.000 | 15.000 |
| Rub | Rubens | | | 0-1 | 4-7 | 1-3 | | 3 | <input type="checkbox"/> | <input type="checkbox"/> | | 29.000 | 29.000 |
| Cer | Cervantes | | | 0-1 | 4-7 | 1-2 | | 4 | <input type="checkbox"/> | <input type="checkbox"/> | | 24.000 | 24.000 |
| Curie | Curie | maternal leave starts on 10. Nov. | | 0-1 | 4-7 | 1-3 | | 6 | <input type="checkbox"/> | <input type="checkbox"/> | | 18.000 | 18.000 |

Room

This is where you can enter a home room for the teacher. If a lesson is scheduled with a teacher who has a home room, this room will be automatically entered for the teacher's lesson.

Non-teaching period

Use the "NTP" column to enter how many non-teaching periods can be requested by or allowed for a

teacher. An entry of 0-4 means that between zero and four non-teaching periods per week are allowed for a teacher.

Periods per day

Enter the minimum and maximum number of teaching periods per day for each teacher in the field "Periods/day". An entry of 4-7 would mean that the teacher should teach at least 4 but no more than 7 periods per day.

Lunch break

Enter the minimum and maximum length of the lunch break for the individual teachers.

Personnel number

It is only necessary to enter the personnel number if it is required for printed reports or transfer files (for the authorities).

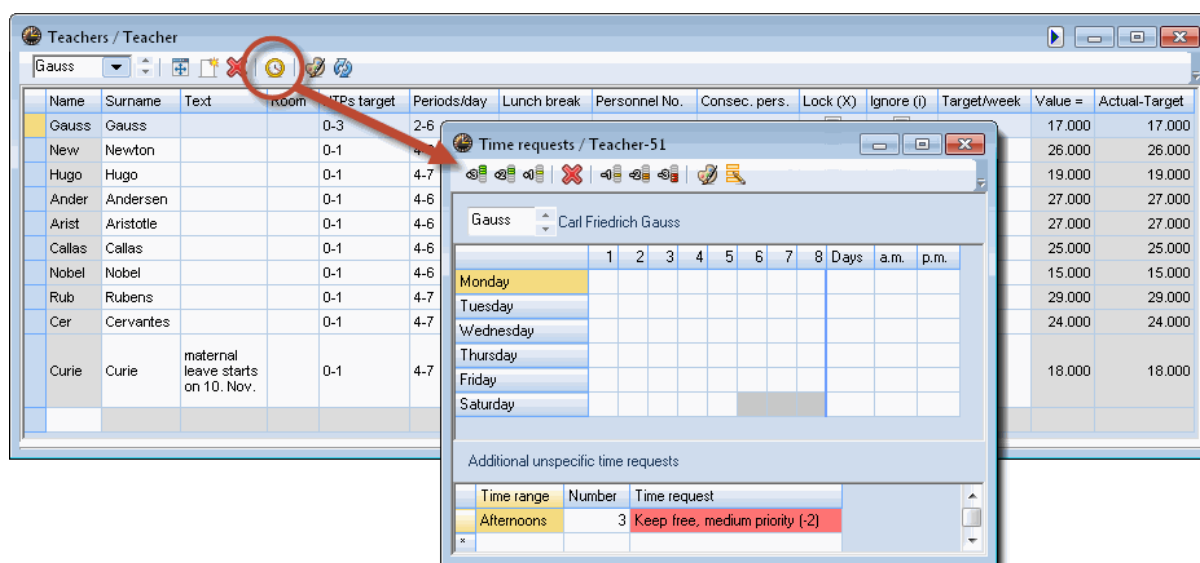
Consecutive periods

This is where you can specify the maximum number of periods each teacher wishes to teach before having a non-teaching period (break).

1.3.6.1 Time requests for teachers

In most cases, teacher's' time requests are particularly important. Untis therefore permits lessons to be scheduled in a way that takes individual teachers' wishes and requirements into consideration.

First select a specific teacher by clicking in the corresponding row of the grid view under 'Master Data | Teachers' and then click on the <Time Requests> button. The time request window will now be displayed for input.



1.3.6.1.1 Specific time requests

Use the upper section of the window to enter time requests for specific days and periods.

In the example teacher Hugo would *rather not* teach in the first periods. Thursday is teacher Hugo's day off.

The screenshot shows a window titled "Time requests / Teacher-51" with a toolbar and a dropdown menu showing "Hugo" and "Victor Hugo". Below is a table for specific time requests:

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Days | a.m. | p.m. |
|-----------|----|----|----|----|----|----|----|----|------|------|------|
| Monday | -1 | | | | | | | | | | |
| Tuesday | -1 | | | | | | | | | | |
| Wednesday | -1 | | | | | | | | | | |
| Thursday | -3 | -3 | -3 | -3 | -3 | -3 | -3 | -3 | | | |
| Friday | -1 | | | | | | | | | | |
| Saturday | -1 | | | | | | | | | | |

Below the table is a section titled "Additional unspecific time requests" with a table:

| Time range | Number | Time request |
|------------|--------|---------------------------------|
| Afternoons | 1 | Keep free, medium priority (-2) |
| Afternoons | 3 | Keep free, low priority (-1) |
| * | | |

1.3.6.1.2 Unspecified time requests

It is also possible to enter unspecified time requests. The actual decision when these time requests will become relevant is made during automatic scheduling - dependend on all other elements.

You can accept a teacher's request for a day off on any day on the week by entering it in the lower part of the window.

Warning:
Unspecified time requests apply **in addition to** specified requests, i.e. they are cumulative.

In the example teacher Rub should be granted a day off (-3) as well as a free afternoon if possible (-2) during the week.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Days | a.m. | p.m. |
|-----------|---|---|---|---|---|---|---|---|------|------|------|
| Monday | | | | | | | | | | | |
| Tuesday | | | | | | | | | | | |
| Wednesday | | | | | | | | | | | |
| Thursday | | | | | | | | | | | |
| Friday | | | | | | | | | | | |
| Saturday | | | | | | | | | | | |

Additional unspecific time requests

| Time range | Number | Time request |
|----------------------|--------|---|
| Days | 1 | Blocked, keep free without exception (-3) |
| Afternoons | 1 | Keep free, medium priority (-2) |
| Period from-to (1-2) | 2 | Blocked, keep free without exception (-3) |
| * | | |

You can also block individual periods under "Unspecified blocks". The entry in the example would mean that teacher Rub should have periods 1-2 free on two days of the week.

Tip: Unspecified time requests

You should use unspecified time requests whenever possible. If a teacher needs a day off, for example, Untis will then determine the day (or half-day) to be kept free based on the specifics of the timetable. This avoids placing too many restrictions on scheduling and allows better timetables to be calculated.

1.3.6.2 Values

You can also enter and view the following values.

Target per week

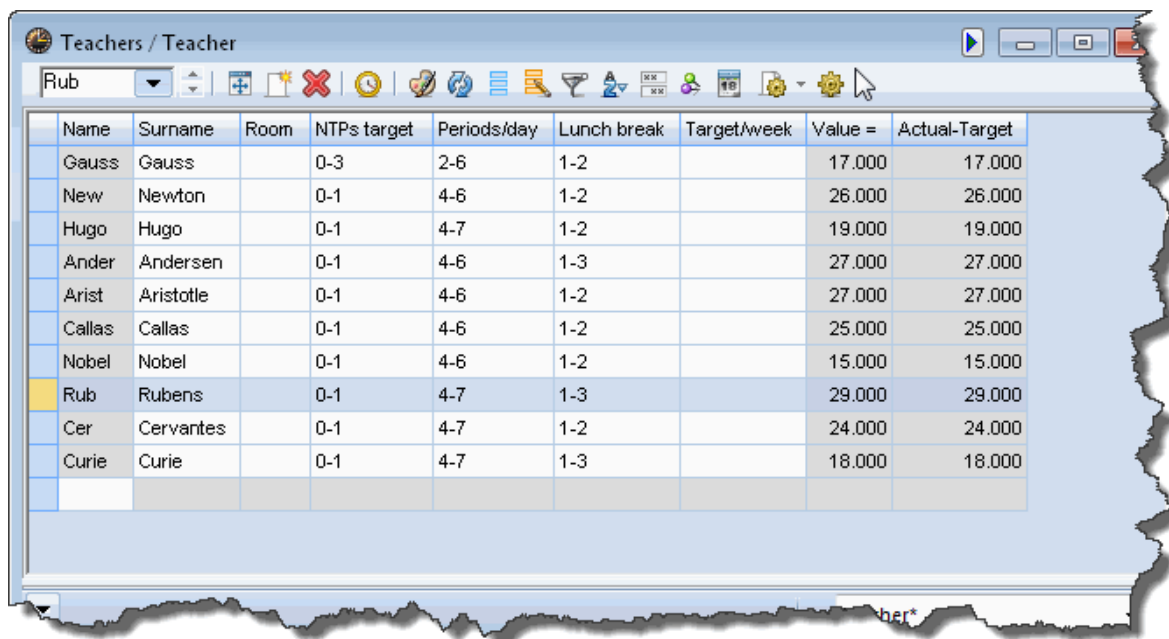
This is where you define how many periods a teacher should have each week.

Value =

This column displays how many periods per week have been allocated to each teacher.

Actual-target

This column displays the difference between actual and target periods. A negative value means that the teacher teaches too few periods.

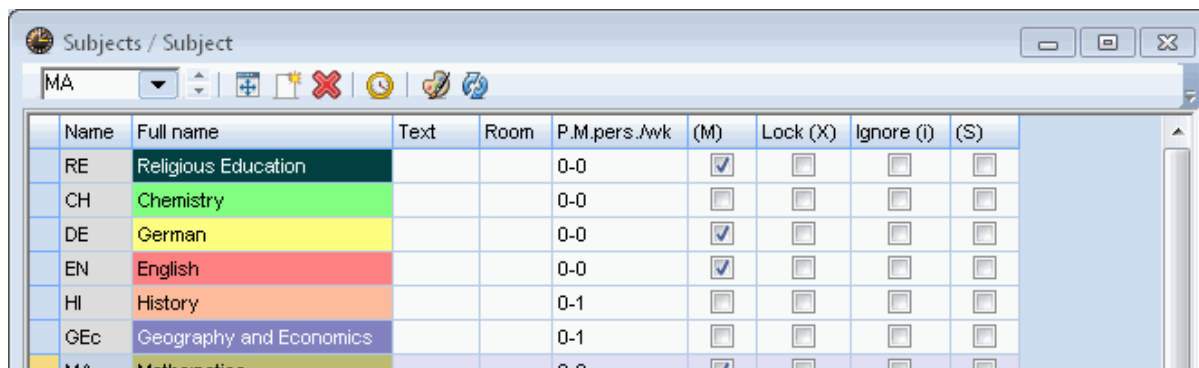


The screenshot shows a window titled "Teachers / Teacher" with a toolbar and a table of teacher data. The table has columns: Name, Surname, Room, NTPs target, Periods/day, Lunch break, Target/week, Value =, and Actual-Target. The data is as follows:

| Name | Surname | Room | NTPs target | Periods/day | Lunch break | Target/week | Value = | Actual-Target |
|--------|-----------|------|-------------|-------------|-------------|-------------|---------|---------------|
| Gauss | Gauss | | 0-3 | 2-6 | 1-2 | | 17.000 | 17.000 |
| New | Newton | | 0-1 | 4-6 | 1-2 | | 26.000 | 26.000 |
| Hugo | Hugo | | 0-1 | 4-7 | 1-2 | | 19.000 | 19.000 |
| Ander | Andersen | | 0-1 | 4-6 | 1-3 | | 27.000 | 27.000 |
| Arist | Aristotle | | 0-1 | 4-6 | 1-2 | | 27.000 | 27.000 |
| Callas | Callas | | 0-1 | 4-6 | 1-2 | | 25.000 | 25.000 |
| Nobel | Nobel | | 0-1 | 4-6 | 1-2 | | 15.000 | 15.000 |
| Rub | Rubens | | 0-1 | 4-7 | 1-3 | | 29.000 | 29.000 |
| Cer | Cervantes | | 0-1 | 4-7 | 1-2 | | 24.000 | 24.000 |
| Curie | Curie | | 0-1 | 4-7 | 1-3 | | 18.000 | 18.000 |

1.3.7 Subjects

You can make the following entries for subjects:



The screenshot shows a window titled "Subjects / Subject" with a toolbar and a table of subject data. The table has columns: Name, Full name, Text, Room, P.M.pers./wk, (M), Lock (X), Ignore (I), and (S). The data is as follows:

| Name | Full name | Text | Room | P.M.pers./wk | (M) | Lock (X) | Ignore (I) | (S) |
|------|-------------------------|------|------|--------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| RE | Religious Education | | | 0-0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CH | Chemistry | | | 0-0 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DE | German | | | 0-0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| EN | English | | | 0-0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| HI | History | | | 0-1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| GEc | Geography and Economics | | | 0-1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| MA | Mathematics | | | 0-0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Room

Some subjects (e.g. sport) always require a special subject room. These should be entered in this column.

P.m. periods per week

If a certain subject can or should be taught in the afternoon you can make the appropriate entries in the "P.M. pers/week" field. The figure shows that 0-0 has been entered for subject "DE" meaning that it may not be taught in the afternoon. There may be 2 periods of Graphics (0-2) and must be 2 periods of Cookery (2-2) for each class in the afternoons.

Main subject

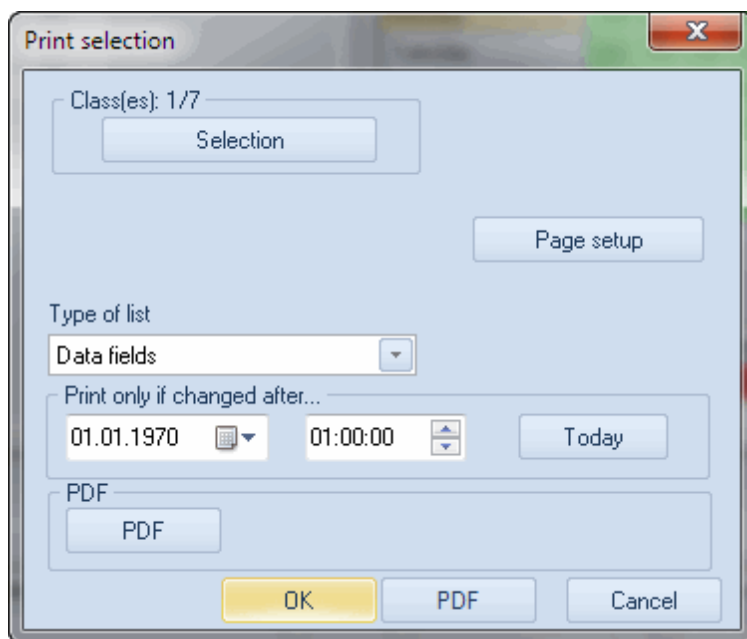
You can use column "(M)" to define any subject as a main subject and make entries for classes to prevent too many main subjects being scheduled in a class timetable consecutively on the same day. A further consequence of this is that it helps you to influence the position of main subjects. Please refer to chapter ["Weighting / Main Subjects tab"](#) .

Tip: Colours

Use the <Colour> button to assign colours to subjects that are then displayed in the timetable.

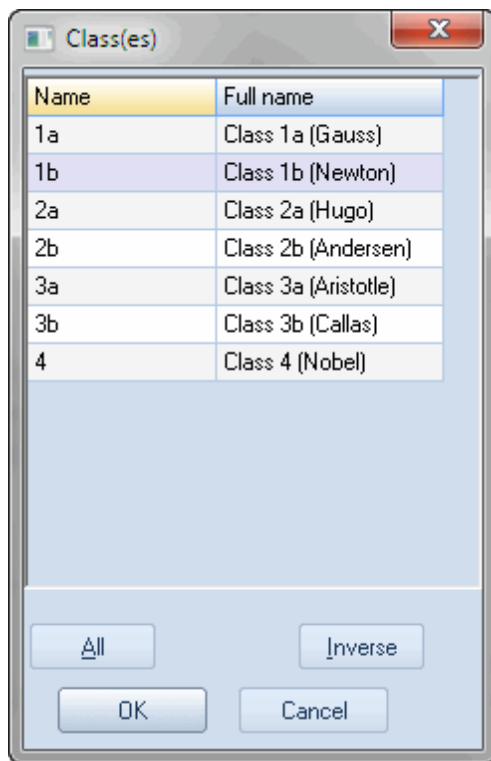
1.3.8 Printing master data and lessons

As a general rule when printing master data, all active fields that are visible in the grid view will be printed. You can print master data by clicking on the buttons <Print> or <Print Preview>.



Selection

You can then select the elements you wish to print in the Print selection dialogue, if you wish.



Layout

The column heading can also be printed slanted or vertically (see figure). This allows lists to be printed more compactly.

Page setup

This option allows you to set margin widths and font size and to restrict printing to the page width.

1.4 Lessons

A lesson is the combination of class, teacher, subject and room expressed in terms of a certain number of periods per week. You can also add various parameters to individual lessons such as scheduling double periods.

| L-No. | Cl,Te. | UnSched Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. | Text |
|-------|--------|--------------|-----|---------|---------|---------|-------------|--------------|-----------|--------------|------|
| 11 | 4, 1 | | 2 | | Hugo | GEc | 1a,1b,2a,2b | | R1a | | |
| 7 | 2, 3 | | 2 | | Ander | DS | 1a | WS | R1a | 1-1 | |
| 73 | 2, 2 | | 3 | | Arist | PEG | 1a,1b | SH2 | R1a | | |
| 31 | | | 5 | | Arist | MA | 1a | | R1a | | |
| 33 | | | 5 | | Arist | EN | 1a | | R1a | | |
| 35 | | | 2 | | Callas | MU | 1a | | R1a | | |
| 39 | | | 2 | | Callas | AR | 1a | | R1a | 1-1 | |
| 46 | | | 2 | | Nobel | RE | 1a | | R1a | | |
| 53 | | 2 | 5 | | Rub | DE | 1a | | R1a | | |
| 63 | | | 2 | | Cer | BI | 1a | | R1a | | |

Tip: Display total line

You can display a total line for the columns in a lessons view in order, for example, to check the total number of periods for teacher. To do this, click on the column heading row with the right mouse-button and select "Total".

1.4.1 Entering lessons

There are various types of lessons and the input must be adapted to follow the special criteria required.

- [Simple lessons](#)
- [Coupled lessons](#)
- [Lessons with one teacher and several classes](#)
- [Lessons with several teachers and several classes](#)
- [Lessons with several teachers, several classes and several subjects](#)
- [Double-period lessons](#)
- [Block lessons](#)
- [Fortnightly lessons](#)

1.4.1.1 Simple lessons

Lesson 31 in class 1a is an example of a simple lesson:

| L-No. | Cl,Te. | UnSched Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. | Text |
|-------|--------|--------------|-----|---------|---------|---------|-------------|--------------|-----------|--------------|------|
| 11 | 4, 1 | | 2 | | Hugo | GEc | 1a,1b,2a,2b | | R1a | | |
| 7 | 2, 3 | | 2 | | Ander | DS | 1a | WS | R1a | 1-1 | |
| 73 | 2, 2 | | 3 | | Arist | PEG | 1a,1b | SH2 | R1a | | |
| 31 | | | 5 | | Arist | MA | 1a | R1a | R2a | | |
| 33 | | | 5 | | Arist | EN | 1a | | R1a | | |
| 35 | | | 2 | | Callas | MU | 1a | | R1a | | |
| 39 | | | 2 | | Callas | AR | 1a | | R1a | 1-1 | |
| 46 | | | 2 | | Nobel | RE | 1a | | R1a | | |
| 53 | | 2 | 5 | | Rub | DE | 1a | | R1a | | |
| 63 | | | 2 | | Cer | BI | 1a | | R1a | | |

Teacher Aristotle takes class 1a in room R1a for five periods of maths each week.

If you wish to create a new lesson, enter the desired elements in the last, empty line.

Warning: Confirming input

Please make sure to confirm each entry using the <TAB> or <ENTER> keys. Unconfirmed input will not be saved when you exit the window.

1.4.1.2 Coupled lessons

Coupled lessons, also referred to as a coupling, is a lesson in which more than one teacher and/or more than one class participate. All lessons in the coupling are always held simultaneously. The 'Cl,Te' column shows how many classes and teachers are involved in the coupling.

The table view shows all lessons in the current view. When a lesson is part of a coupling you can display all information relating to the coupling, i.e. all coupling lines, by clicking on the '+' in the 'Cl,Te' column.

| L-No. | Cl,Te. | UnSched Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. | Text |
|-------|--------|--------------|-----|---------|---------|---------|-------------|--------------|-----------|--------------|------|
| 11 | 4, 1 | | 2 | | Hugo | GEc | 1a,1b,2a,2b | | R1a | | |
| 7 | 2, 3 | | 2 | | Ander | DS | 1a | WS | R1a | 1-1 | |
| | | | | | Gauss | DS | 1b | WS | R1a | | |
| | | | | | Curie | TX | 1a,1b | TVV | | | |
| 73 | 2, 2 | | 3 | | Arist | PEG | 1a,1b | SH2 | R1a | | |
| 31 | | | 5 | | Arist | MA | 1a | R1a | R2a | | |
| 33 | | | 5 | | Arist | EN | 1a | | R1a | | |
| 35 | | | 2 | | Callas | MU | 1a | | R1a | | |
| 39 | | | 2 | | Callas | AR | 1a | | R1a | 1-1 | |
| 46 | | | 2 | | Nobel | RE | 1a | | R1a | | |
| 53 | | 2 | 5 | | Rub | DE | | | | | |
| 63 | | | 2 | | Cer | BI | | | | | |

Tip: Show all couplings

You can open and close all couplings at once by clicking on the '+' in the 'Cl,Te' column header.
(Keyboard short cut <Ctrl> + <SHIFT> + R)

1.4.1.2.1 Several classes

Lesson number 11 is an example of a so-called class coupling. Victor Hugo teaches classes 1a and 1b in the subject GEC in room R1a. If you wish to create such a coupling, simply enter classes 1a and 1b into the 'Class(es)' column separated by a colon.

| L-No. | Cl,Te | UnSched Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double p |
|-------|-------|--------------|-----|---------|---------|---------|-----------|--------------|-----------|----------|
| 11 | 4, 1 | | 2 | | Hugo | GEC | 1a,1b | | R1a | |
| 7 | 2, 3 | | 2 | | Ander | DS | 1a | WS | R1a | 1-1 |
| | | | | | Gauss | DS | 1b | WS | R1a | |

Note: Input and display

If you e.g. enter details for lesson 11 in the view for class 1a, they will also appear in the view for 1b since it also participates in the lesson.

1.4.1.2.2 Several teachers

Lesson number 82 is a coupling with two teachers. All information will only be displayed when you click on the '+' in the 'Cl,Te' column.

The two teachers, Andersen and Gauss, take class 4 for maths together. This is team teaching, therefore the same room has been entered for both teachers.

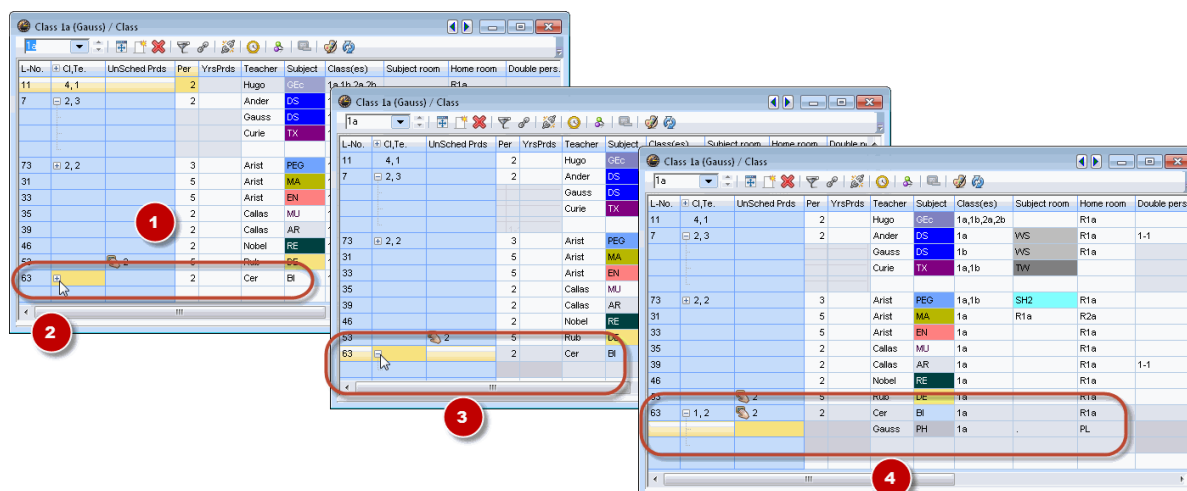
| L-No. | Cl,Te | UnSched Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double p |
|-------|-------|--------------|-----|---------|---------|---------|-----------|--------------|-----------|----------|
| 74 | 1, 2 | | 3 | | Curie | PEG | 4 | SH2 | Ps2 | |
| 80 | 1, 2 | | 2 | | Ander | DS | 4 | WS | Ps2 | 1-1 |
| 82 | 1, 2 | | 4 | | Ander | MA | 4 | | Ps2 | |
| | | | | | Gauss | MA | 4 | | Ps2 | |

If the two teachers are to teach in different rooms, you should enter two different rooms in the 'Home room' column.

Entering a teacher coupling

1. First enter the initial coupling line as a [simple lesson](#).
2. Use the mouse to move the cursor to the 'Cl,Te' column until the '+' appears and click on it.

3. Another line in colour will be displayed with the same lesson number.
4. You can now enter details for the second line of the coupling.



Note: Increasing couplings

When you enter details into the empty, coloured coupling line, a further empty line will be displayed immediately with the same lesson number. You can thus increase the coupling as you wish.

1.4.1.2.3 Several classes, teachers and subjects

Generally speaking, each coupling line can be treated separately. There are no restrictions on your choice of master data, i.e. classes, teachers, subjects and rooms.

One classic example is sport, such as lesson 75 in the example. Here you will find a coupling with two classes split between two different teachers, subjects and rooms.

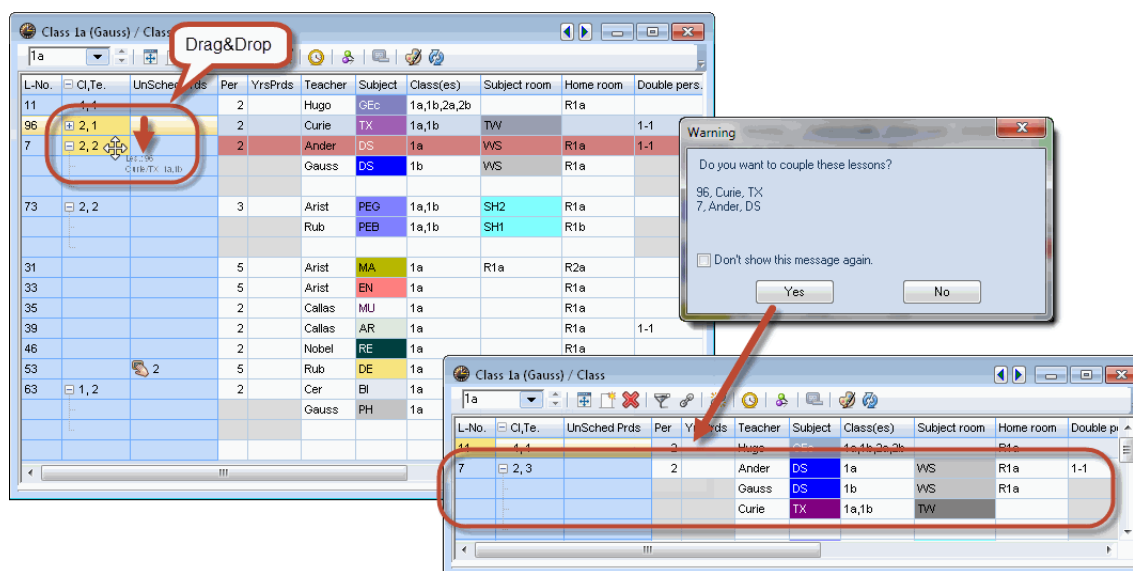
| L-No. | Cl.Te. | UnSched Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. |
|-------|--------|--------------|-----|---------|---------|---------|-----------|--------------|-----------|--------------|
| 73 | 2, 2 | | 3 | | Arist | PEG | 1a,1b | SH2 | R1a | |
| | | | | | Rub | PEB | 1a,1b | SH1 | R1b | |

Warning:

If there are a large number of couplings in a school, the way they are put together can have a major impact on the quality of the timetable. Poor coupling formation can prevent good scheduling.

1.4.1.2.4 Coupling/decoupling lessons

If you wish to couple two existing lessons, mark one of the lessons in the column 'Cl,Te' with the right mouse-button and drag it over to the lesson with which you wish to link it. When you release the dragged lesson, both lessons will be coupled.



Decoupling coupled lessons is just as simple. Drag the coupling row that you wish to decouple out of the coupling by using the mouse in the 'Cl,Le' column and drop it. The lessons are now decoupled.

1.4.1.3 Double periods

Lessons will be scheduled in single periods unless specified otherwise. If you wish to have or allow double periods you must enter this in the "Double pers." column of the lessons concerned. This field is used to enter the minimum and maximum number of double periods that are allowed for a lesson:

The value '1-1' (double periods minimum and maximum value) has been entered for lesson number 39. This means that the lesson should be scheduled in one minimum/maximum double period i.e. in **exactly** one.

| L-No. | Cl,Te. | UnSched | Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. |
|-------|--------|---------|------|-----|---------|---------|---------|-----------|--------------|-----------|--------------|
| 39 | | | | 2 | | Callas | AR | 1a | | R1a | 1-1 |

The value '0-1' has been entered for lesson number 33. This means that a 2-period lesson **can** be

scheduled in a double period, but it is not an absolute requirement (minimum 0, maximum 1 double period).

| L-No. | Cl,Te. | UnSched Prds | /rsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. |
|-------|--------|--------------|---------|---------|---------|-----------|--------------|-----------|--------------|
| 33 | | | | Arist | EN | 1a | | R1a | 0-1 |

The double period entry for lesson number 31 means that a double period must take place. The remaining three weekly periods will be scheduled as single periods.

| L-No. | Cl,Te. | UnSched Prds | s | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. |
|-------|--------|--------------|---|---------|---------|-----------|--------------|-----------|--------------|
| 31 | | 2 | 5 | Arist | MA | 1a | R1a | R2a | 1-1 |

Tip: Double period condition

If possible try not to formulate the conditions for double periods too restrictively. This means, for example, entering '0-1' instead of '1-1' for two periods of lessons. This will allow automatic scheduling more possible variations, which can result in significantly better timetables.

1.4.1.4 Blocks

More than 2 periods scheduled consecutively are called a block of periods.

If you wish to schedule 3 periods consecutively, enter '3' in the column 'Block'.

| L-No. | Cl,Te. | UnSched Pr | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. | Text | Block | Lock (X) |
|-------|--------|------------|---------|---------|-----------|--------------|-----------|--------------|------|-------|--------------------------|
| 39 | | 6 | Callas | AR | 1a | | R1a | 1-1 | | 3 | <input type="checkbox"/> |

If you want to schedule a 6-period lesson in two blocks of 3, simply enter '3,3'.

1.4.1.5 Fortnightly lessons

Check either column 'A-week' or column 'B-week', if a lesson is to take place only every two weeks. Then the lesson will only be scheduled in the week specified and a different lesson can be scheduled at the same place in the other week.

The screenshot shows the 'Class 1a (Gauss) / Class' window with a table of lesson entries. The table has columns: L-No., Cl,Te., UnSched Prds, Per, YrsPrds, Teacher, Subject, Class(es), Subject room, Home room, A-week, B-week, and Text. A red circle highlights the entry for L-No. 35, which has a subject of MU and a teacher of Callas. Below this, a 'Timetable' window is shown, displaying a weekly schedule grid. A red circle highlights the entry for Monday, period 3, which is 'M AR'.

| L-No. | Cl,Te. | UnSched Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | A-week | B-week | Text |
|-------|--------|--------------|-----|---------|---------|---------|-------------|--------------|-----------|-------------------------------------|-------------------------------------|------|
| 11 | 4, 1 | | 2 | | Hugo | GEc. | 1a,1b,2a,2b | | R1a | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7 | 2, 3 | | 2 | | Ander | DS | 1a | WS | R1a | <input type="checkbox"/> | <input type="checkbox"/> | |
| 73 | 2, 2 | | 3 | | Arist | PEG | 1a,1b | SH2 | R1a | <input type="checkbox"/> | <input type="checkbox"/> | |
| 31 | | | 5 | | Arist | MA | 1a | | R1a | <input type="checkbox"/> | <input type="checkbox"/> | |
| 33 | | | 5 | | Arist | FN | 1a | | R1a | <input type="checkbox"/> | <input type="checkbox"/> | |
| 35 | | | 2 | | Callas | MU | 1a | | R1a | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 39 | 4 | | 6 | | Callas | AR | 1a | | R1a | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 46 | | | 2 | | RUBEN | RE | 1a | | R1a | <input type="checkbox"/> | <input type="checkbox"/> | |
| 53 | 2 | | 5 | | Rub | DE | 1a | | R1a | <input type="checkbox"/> | <input type="checkbox"/> | |
| 63 | | | 2 | | Cer | BI | 1a | | R1a | <input type="checkbox"/> | <input type="checkbox"/> | |

| | Mo | Tu | We | Th | Fr | Sa |
|---|------|-----|------|----|------|------|
| 1 | FN | MA | GEc. | RE | MA | BI |
| 2 | M AR | EN | PEG. | DE | RE | EN |
| 3 | | | MA | EN | EN | MA |
| 4 | PEG. | | DE | MA | DE | GEc. |
| 5 | | | | | BI | |
| 6 | | | | | | |
| 7 | | DS. | | | | |
| 8 | | | | | PEG. | |

1.4.1.6 Other entries for lessons

'(X) Lock', '(i) Ignore' and 'Text'

The way 'Lock (X)', 'Ignore (i)' and 'Text' work were explained in chapter ' [Entries for all master data elements and lessons](#) '.

(D) Respect double periods

Checking this box means that the number of allowed (desired) double periods must be respected for this lesson at all costs by the optimisation. This also applies when double periods have been excluded for a lesson ('0-0' in the field 'Double periods min., max.').

Warning:

Please use this flag sparingly (if in doubt, please do not use it at all). It places a severe restriction on the optimisation - especially for subjects with a large number of periods. Before using it, it is advisable to increase the corresponding weighting parameter ('Avoid errors with double periods') to 5 if necessary (please refer to chapter "[Weighting | Period Distribution](#)" tab).

Please also note that an entry in the field 'Double periods min., max.' is required in order for double periods to be handled correctly.

Setting the (D) flag excludes the use of the (2) flag.

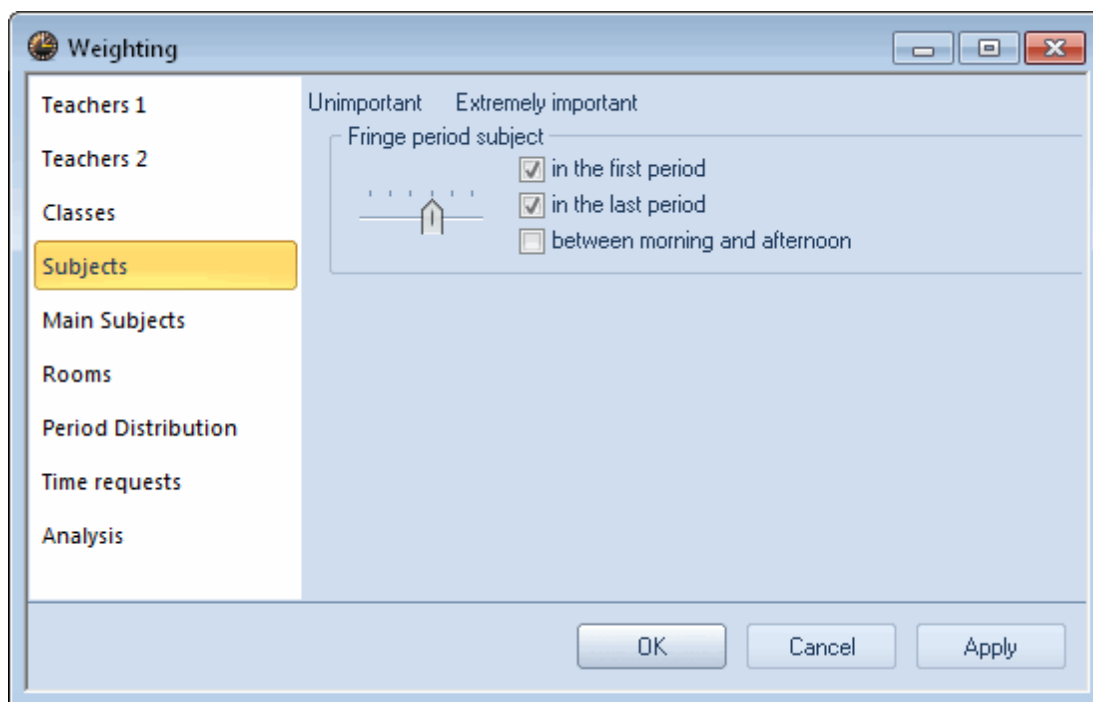
(2) Subject allowed more than once per day (2)

Untis optimisation assumes that a subject may be scheduled for a class only once per day except when [blocked periods](#) or [double periods](#) are desired. You can use this flag to override these - highly weighted - boundary condition. Untis will then be allowed to schedule the subject as is assumed appropriate.

(R) Scheduling of fringe periods

Some subjects are not attended by all students of a class. Therefore they should preferentially be scheduled at the beginning or the end of a half day, hours which are outside of the core timetable and are called fringe periods. Students not attending these subjects can either start school later, leave school earlier or their lunch break is longer.

According to the following weighting settings, fringe periods are preferably scheduled in the first or the last period of the day, however, not between the morning and the afternoon.



Student group

When a group is divided you can enter an appropriate group name in this field.

Warning: Unique student group

The names of the student groups must be unique school wide, i.e. you cannot enter 'Group 1' for both lessons, English and French, although the students in this group are the same.

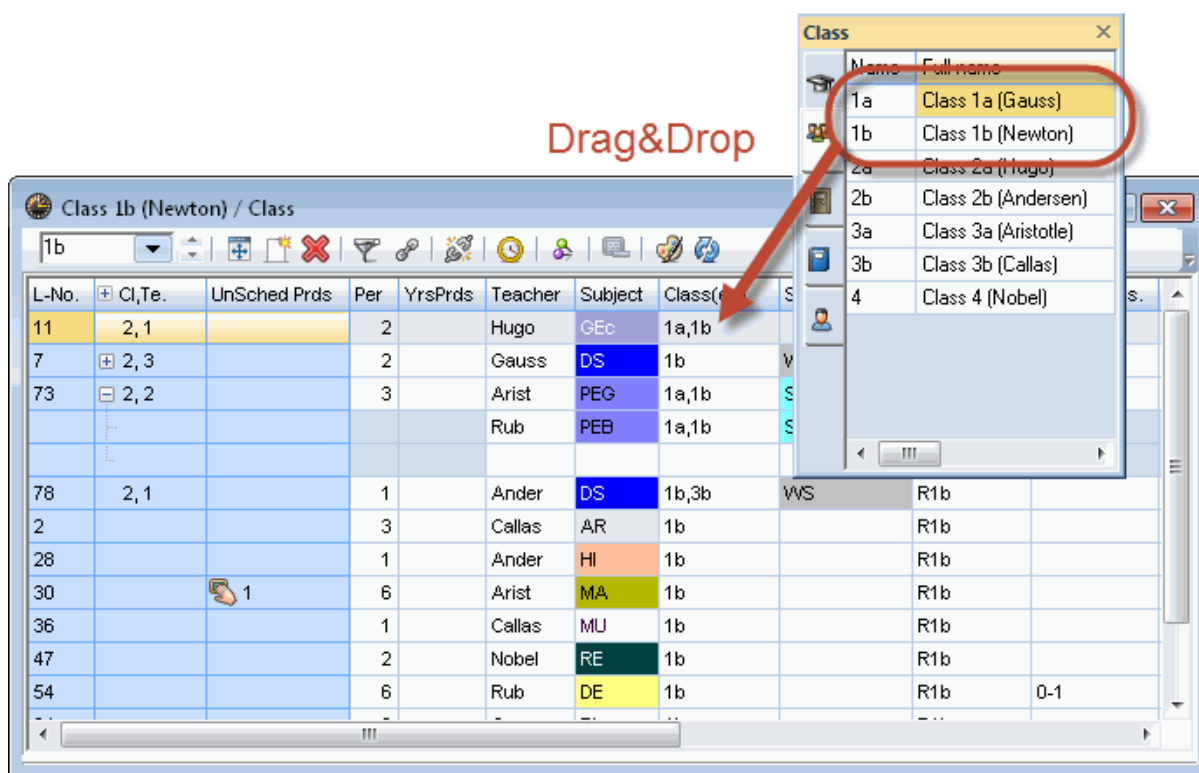
Note: Automatic assignment of student group name

If you enter '?' in the field 'student group', Untis automatically assigns a name to the student group, which is a combination of the classes and the subject involved.

When transferring data to WebUntis, the student groups used in Untis are also transferred. In WebUntis you need to assign students to the individual student groups.

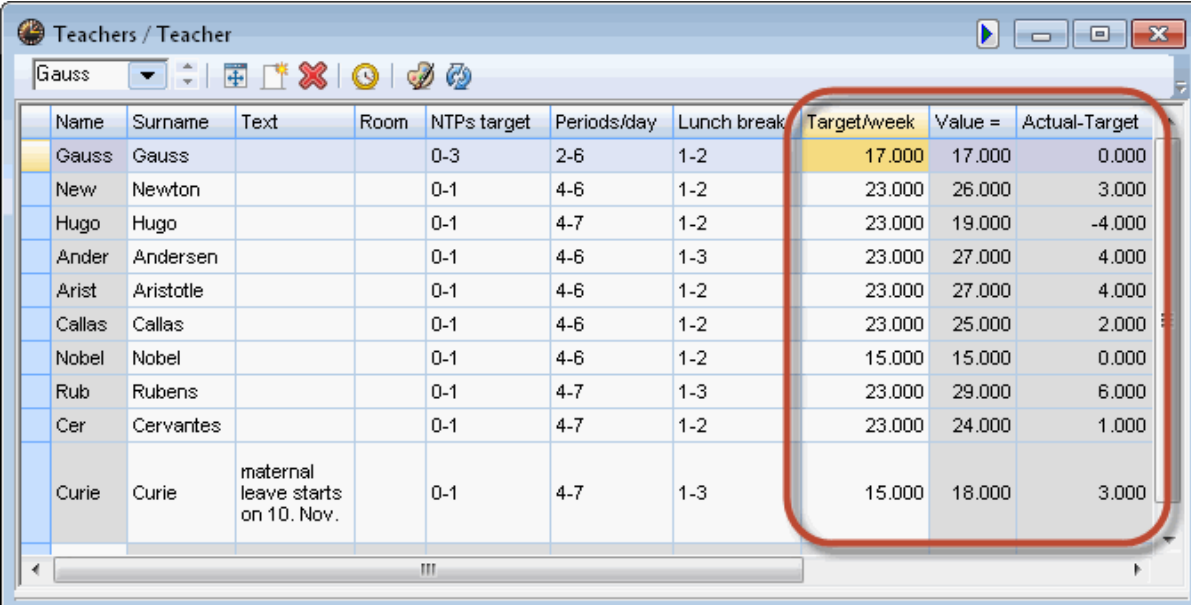
1.4.1.7 Input with element-rollup

The tab 'data' contains the <Element-Rollup> button. You can use the element-rollup to enter elements involved in a lesson into the desired field by drag&drop or by double-clicking.



1.4.2 Lesson planning

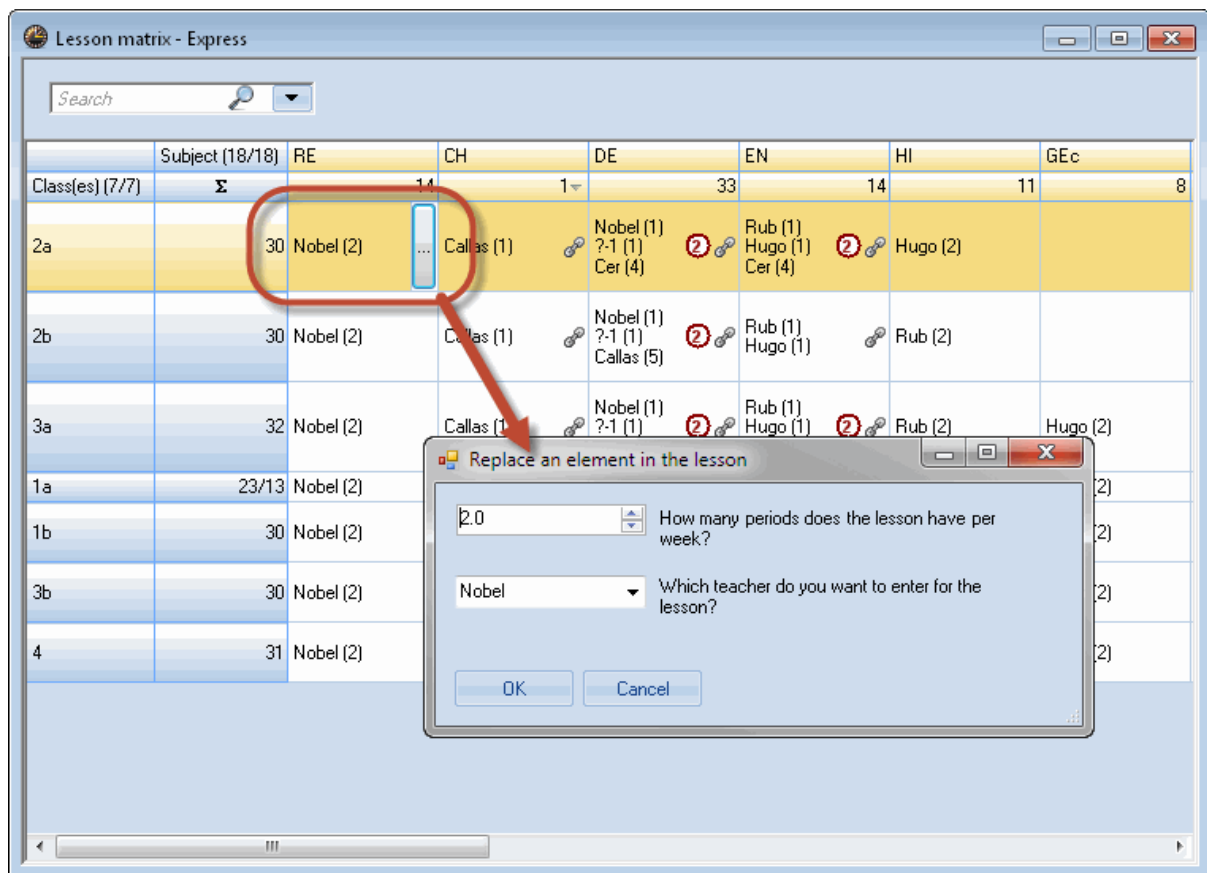
Untis Express provides support when allocating subjects. To do this, use the field 'Target/Week' in teacher master data to enter how many periods each teacher is to teach each week.



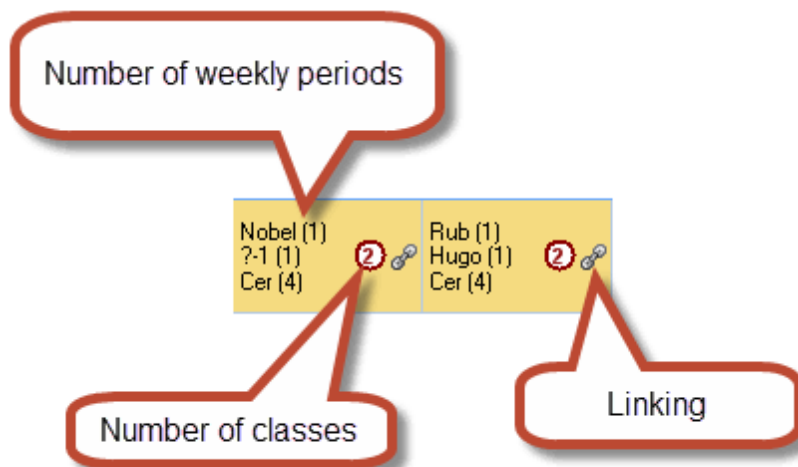
| Name | Surname | Text | Room | NTPs target | Periods/day | Lunch break | Target/week | Value = | Actual-Target |
|--------|-----------|-----------------------------------|------|-------------|-------------|-------------|-------------|---------|---------------|
| Gauss | Gauss | | | 0-3 | 2-6 | 1-2 | 17.000 | 17.000 | 0.000 |
| New | Newton | | | 0-1 | 4-6 | 1-2 | 23.000 | 26.000 | 3.000 |
| Hugo | Hugo | | | 0-1 | 4-7 | 1-2 | 23.000 | 19.000 | -4.000 |
| Ander | Andersen | | | 0-1 | 4-6 | 1-3 | 23.000 | 27.000 | 4.000 |
| Arist | Aristotle | | | 0-1 | 4-6 | 1-2 | 23.000 | 27.000 | 4.000 |
| Callas | Callas | | | 0-1 | 4-6 | 1-2 | 23.000 | 25.000 | 2.000 |
| Nobel | Nobel | | | 0-1 | 4-6 | 1-2 | 15.000 | 15.000 | 0.000 |
| Rub | Rubens | | | 0-1 | 4-7 | 1-3 | 23.000 | 29.000 | 6.000 |
| Cer | Cervantes | | | 0-1 | 4-7 | 1-2 | 23.000 | 24.000 | 1.000 |
| Curie | Curie | maternal leave starts on 10. Nov. | | 0-1 | 4-7 | 1-3 | 15.000 | 18.000 | 3.000 |

Untis Express will then display in the 'Value =' and 'Actual-target' fields how many periods the teacher in question currently teaches or whether he/she is under-/overemployed.

You also have the opportunity to access a summary of all lessons at your school in the form of a matrix by clicking on the 'Data' tab and the button <Lesson planning>. If you click in a field, Untis Express will allow you to change the number of weekly periods or the assigned teacher.



The symbols in the matrix serve as information in the final version of entered lessons:



1.4.2.1 Lessons view toolbar

The following functions are available via buttons in the lessons window toolbar:



Resize window

This function allows you to quickly adjust the window to its 'optimum' size.

New / Delete

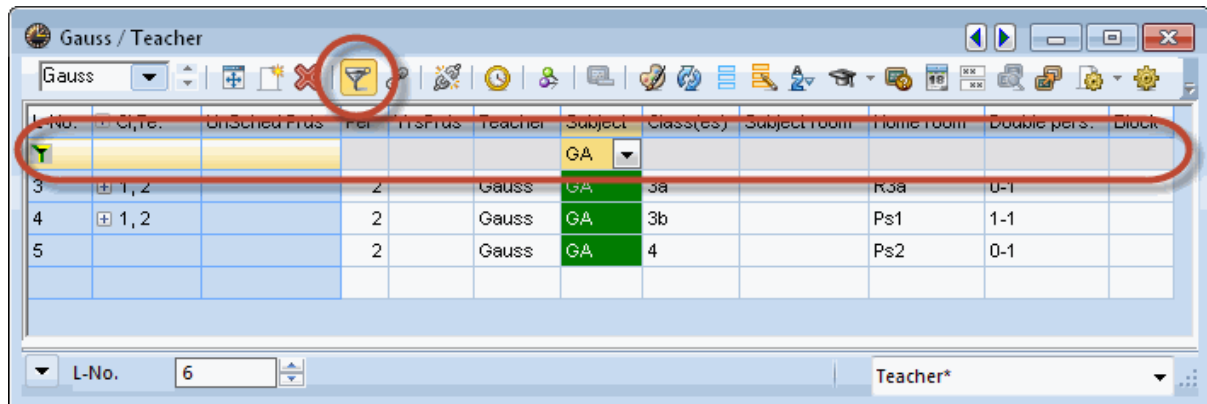
These buttons enable you to create a new lesson or to delete a lesson.

Tip: Deleting a coupling line

You can delete a coupling line by activating it, holding the <Ctrl> key pressed and then clicking on the <Delete> button.

Filter

Clicking on the <Filter> button causes an additional row to be displayed in the table in which you can enter the element that you wish to filter by.



Note: Several filter criteria

You can also filter using more than one criteria. Those elements will be displayed that meet all criteria.

Coupling/extended de-coupling

This function allows you to couple lessons or convert the individual coupling lines of a coupled lesson into independent lessons (with their own lesson numbers).

Time requests

As for master data, a time request can also be specified for lessons. The way this works has already been explained in the chapter ['Specific time requests'](#).

Lock this display

Activating this function (button pressed) causes the relevant (form) view to be protected from events in other windows. This means that if the lessons display shows class 1a and an open timetable view is switched to, say, class 3b, the lessons view will continue to display class 1a (please also refer to chapters "Timetable interaction" and "Lock type").

Colour coding

You can use the <Colour coding> button to assign any foreground and background colour to a lesson. As with master data, these colours are then used when the lesson is displayed on the screen and when the timetable is printed and when scheduling the timetable.

1.5 Automatic scheduling

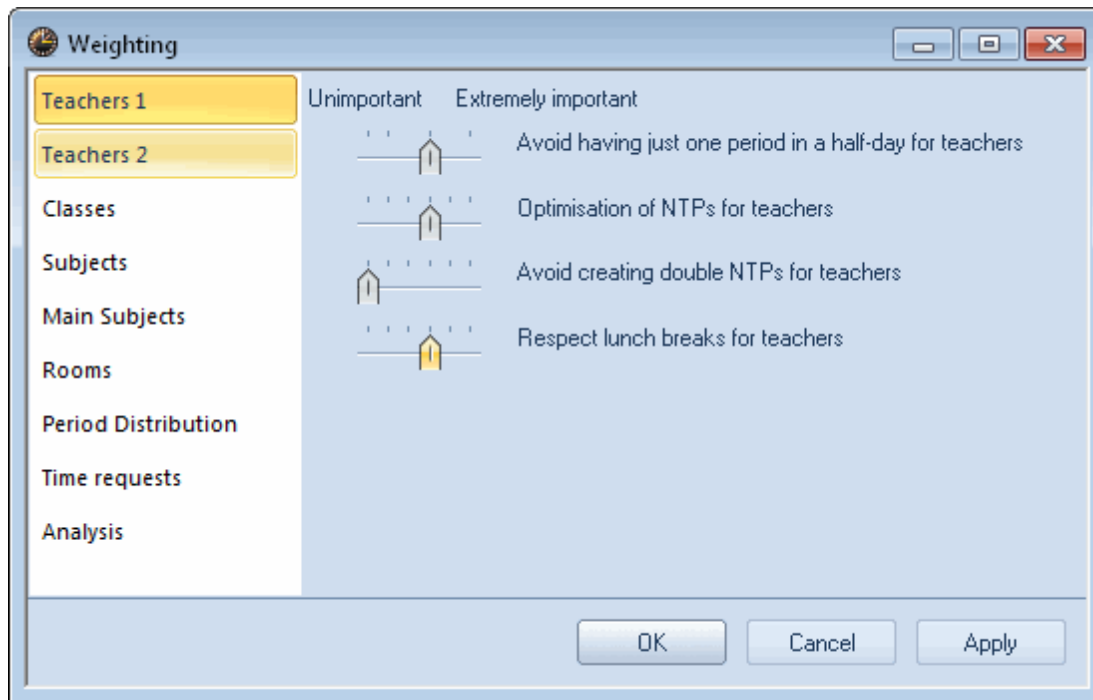
You must specify to what degree general conditions should be considered before you can start automatic scheduling. This is done in the relevant window, via [weighting](#) ' on the 'Start' tab.

Only then you should launch the [optimisation](#) and then finally analyse the results using the [diagnosis](#) function.

1.5.1 Weighting

You have the possibility to enter a number of parameters for master data and for lessons. You must still specify which of these parameters are important for your school and which ones are not so important. You can do this using the slider controls for the individual weighting parameters, with the weighting factors ranging from unimportant (0) to extremely important (5).

Example: If the entered condition for observing teachers' lunch breaks is important, move the slider control 'Respect lunch breaks for teachers' to the right (e.g. to 4).



1.5.1.1 Weighting distribution

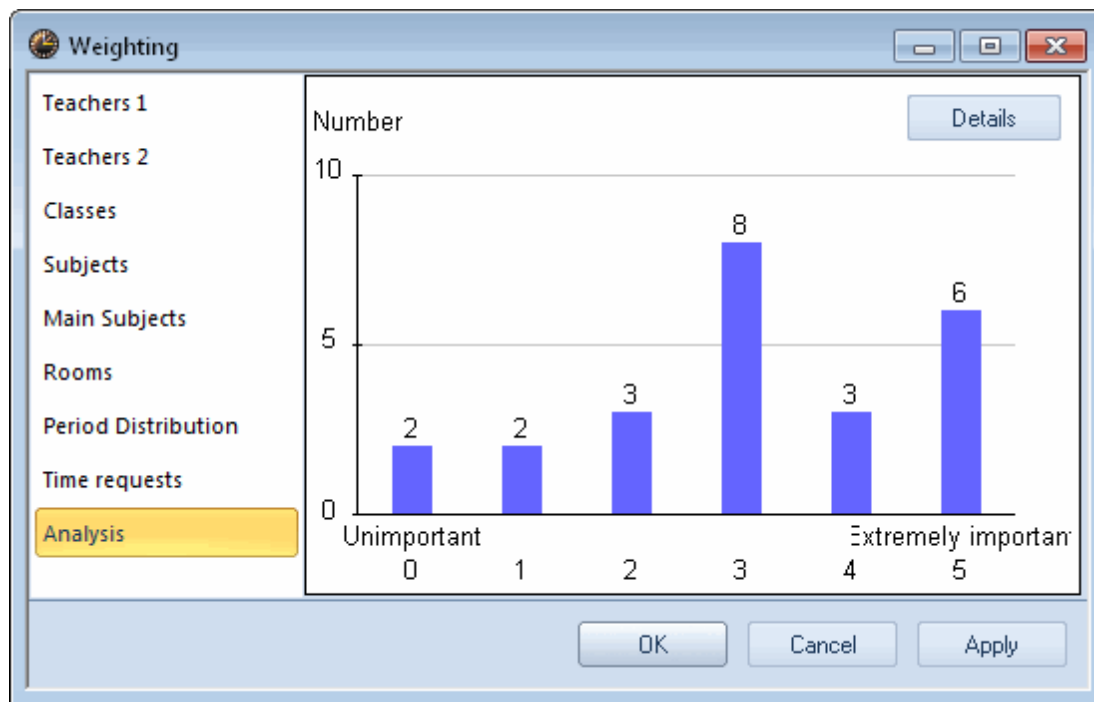
The weighting profile is important for achieving a good and well-balanced timetable. Priorities 4 and 5 should not be used too frequently.

Warning: Priority 5

Please try to use priority 5 for as few weighting factors as possible as otherwise this will not result in a satisfactory timetable.

Weighting analysis

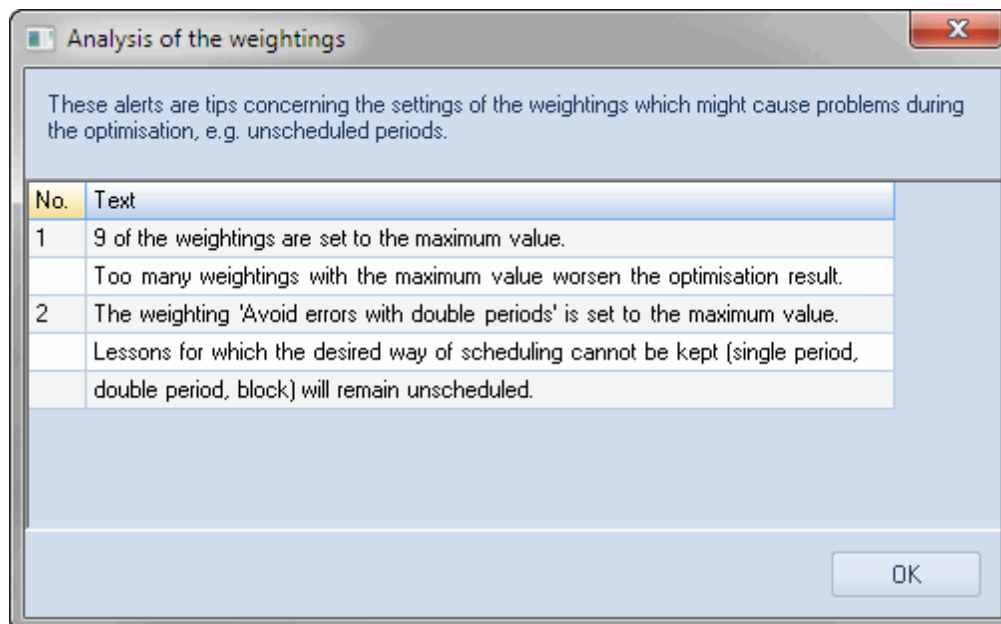
The weighting analysis shows the distribution of weighting factors and gives detailed information on weighting settings that could cause problems for optimisation.



Note: tooltip for bar diagram

By moving the mouse over one of the bars, the weighting items of the respective number is displayed.

In our example the <Details> window displays the following messages:



1.5.1.2 Weighting parameters

You can set weighting parameters according to topic on the following tabs:

- [Teachers 1 tab](#)
- [Teachers 2 tab](#)
- [Classes tab](#)
- [Subjects tab](#)
- [Rooms tab](#)
- [Period Distribution tab](#)
- [Time Requests tab](#)

The [Analysis](#) tab shows you how priorities are distributed.

1.5.1.2.1 Teachers 1 tab

Avoid having just one period in a half-day for teachers

When a teacher teaches in a [half-day](#) this weighting parameter means that he/she should have more than one period in that time.

Optimisation of NTPs for teachers

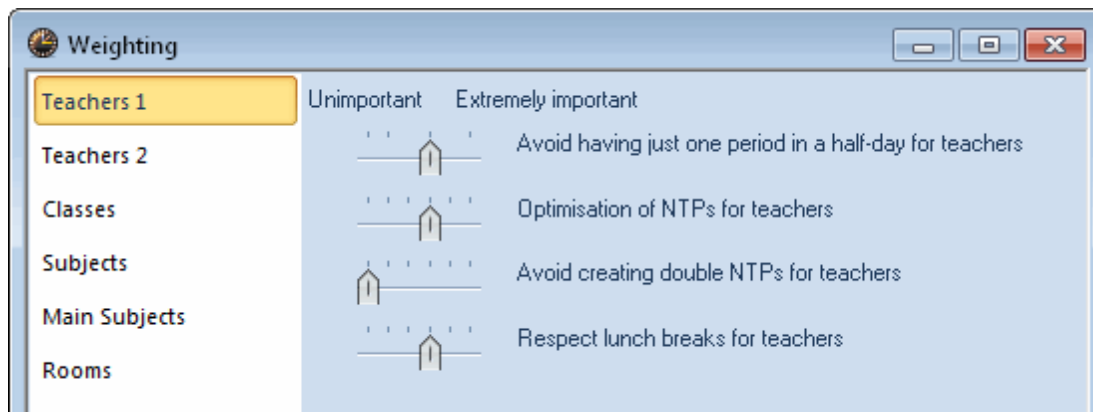
You defined minimum and maximum number of non-teaching periods in the [master data of teachers](#) . This setting controls how these values should be respected.

Avoid creating double NTPs for teachers

Besides controlling individual NTPs, you can also set an additional condition to set additional penalty points for double non-teaching periods.

Respect lunch breaks for teachers

This parameter works in connection with the minimum and maximum values for [lunch break](#) entered in the master data of teachers.



1.5.1.2.2 Teachers 2 tab

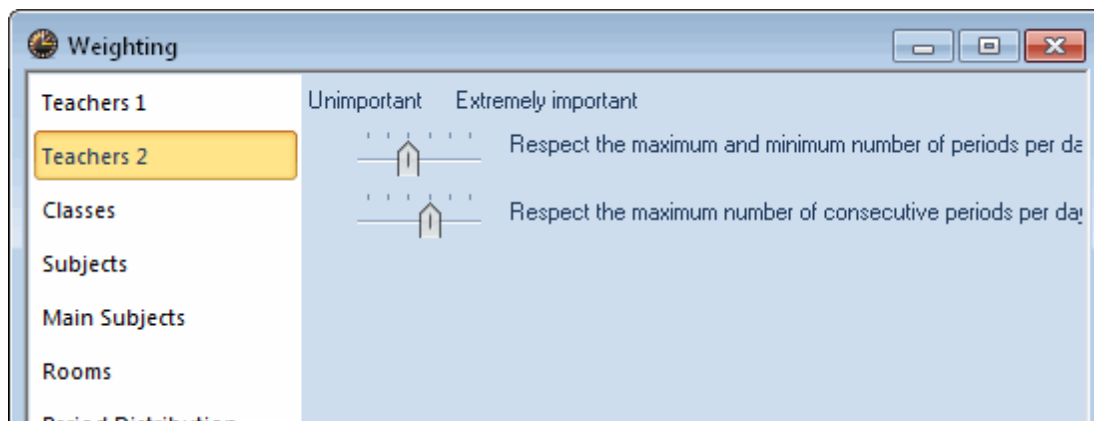
Respect the maximum and minimum number of periods per day for teachers

Controls how the maximum and minimum number of periods per day for teachers set in the [master data](#)

[of teachers](#) will be respected.

Respect the maximum number of consecutive periods per day

Controls how the maximum number of consecutive periods per day set in the [master data of teachers](#) will be respected.



1.5.1.2.3 Classes tab

Avoid non-teaching periods (NTPs)

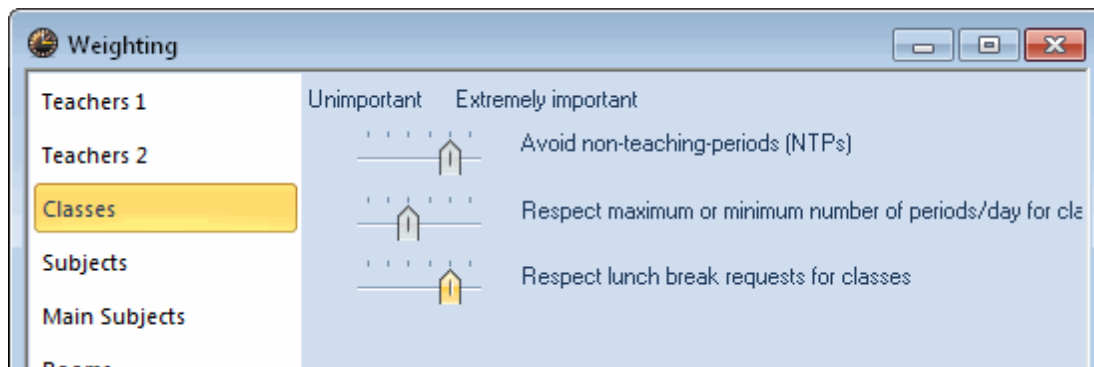
Controls whether non-teaching periods for classes should be avoided.

Respect the maximum or minimum number of periods/day for classes

Controls how the values entered in the [master data of classes](#) will be respected.

Respect lunch break requests for classes

Controls how the minimum and maximum length of a lunch break set in the [master data of classes](#) will be respected.

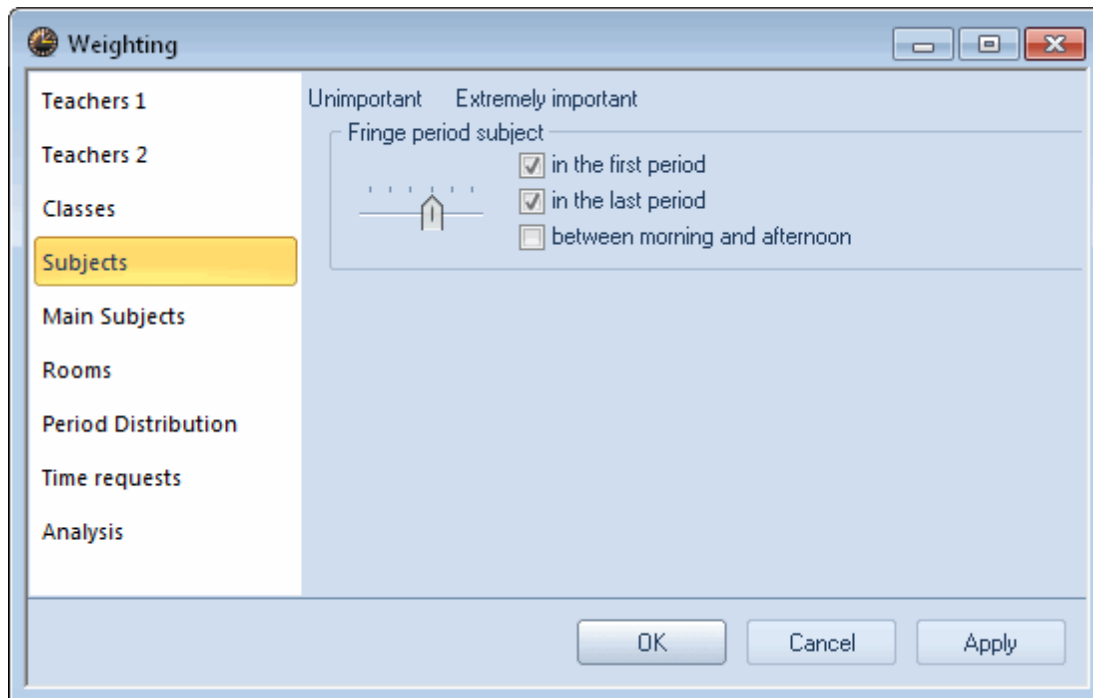


1.5.1.2.4 Subjects tab

Fringe period subject

Here you can specify where the lessons marked with (F) for fringe period in the [lessons of the classes](#)

should preferentially be scheduled.



According to this weighting fringe subjects are preferentially scheduled in the first or the last period of the day, however not between the morning and the afternoon periods.

1.5.1.2.5 Main Subjects tab

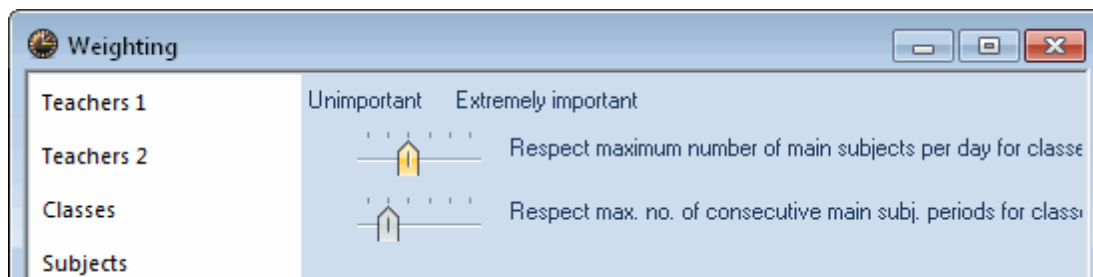
Main subjects are defined as such in the [master data of subjects](#) .

Respect the maximum number of main subjects per day for classes

Controls how the maximum number of main subjects per day set in the [master data of classes](#) will be respected.

Respect max. no. of consecutive main subjects per day for classes

You can specify in the [master sata of classes](#) how many main subjects may take place consecutively for this class. Use this setting to control the importance of this parameter.



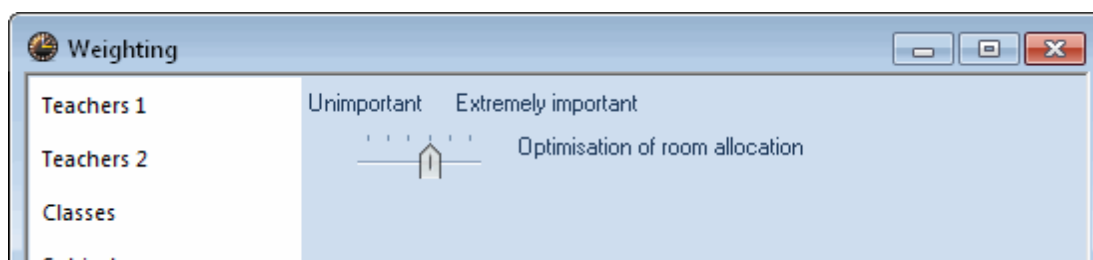
1.5.1.2.6 Rooms tab

Optimisation of room allocation

In the [master data of rooms](#) you can allocate a value between 0 and 4 as [room weighting](#) for each room. 0 means that it is unimportant whether a lesson takes place in this room or its alternative room because no special equipment is required for the lesson, for example. However, a value of 4 means that it only makes sense to schedule the lesson if the room or its [alternative room](#) is free.

For example, chemistry lab equipment is essential, if a lot of experiments are to be performed in a chemistry lesson. Another example is PE, which is only possible in the sports hall.

If a home room and a subject room have been specified for a lesson, only the subject room will be considered during optimisation, if the slider control is on 4 or 5.



Warning: Room - extremely important

If the slider control for this weighting setting is on position 5 ('extremely important') or 4 ('very important'), and if the room weighting for the subject room is 4, a period cannot be scheduled if no suitable subject room can be found.

1.5.1.2.7 Period Distribution tab

The same subject cannot be taught more than once on the same day

A subject may only be scheduled once per day (even when it occurs in various couplings). Periods will go unscheduled if this condition cannot be respected and if the slider control is on 5.

Avoid errors with double periods

There are two types of double period errors in Untis: the breaking up of intended double periods and the *coincidental* creation of unintended double periods when the same subject is scheduled in consecutive periods. Optimisation gives more importance to respecting intended double periods.

Periods will go unscheduled if the 'Avoid errors with double periods' condition cannot be respected and if the slider control is on 5.

The flag (2) 'Subject allowed more than once a day' for a lesson sets the weighting for 'Avoid errors with double periods' to 0 ('unimportant') while the flag '(D) Strictly respect double periods' boosts its importance. This boost may go so far as to prevent a lesson from being scheduled if the double period condition cannot be respected.

Warning: Flag (D)

You should only use flag (D) explicitly in exceptions. Excessive use will impair optimisation results.

2 periods/week - subjects not on consecutive days

This weighting factor refers to lessons with 2 weekly periods (no double period) and is intended to distribute lessons evenly over the week. A high weighting factor prevents the lesson periods being held on consecutive days. It also prevents a period being scheduled on the last day of the week and another on the first day of the following week.

3 periods/week - subjects not on consecutive days

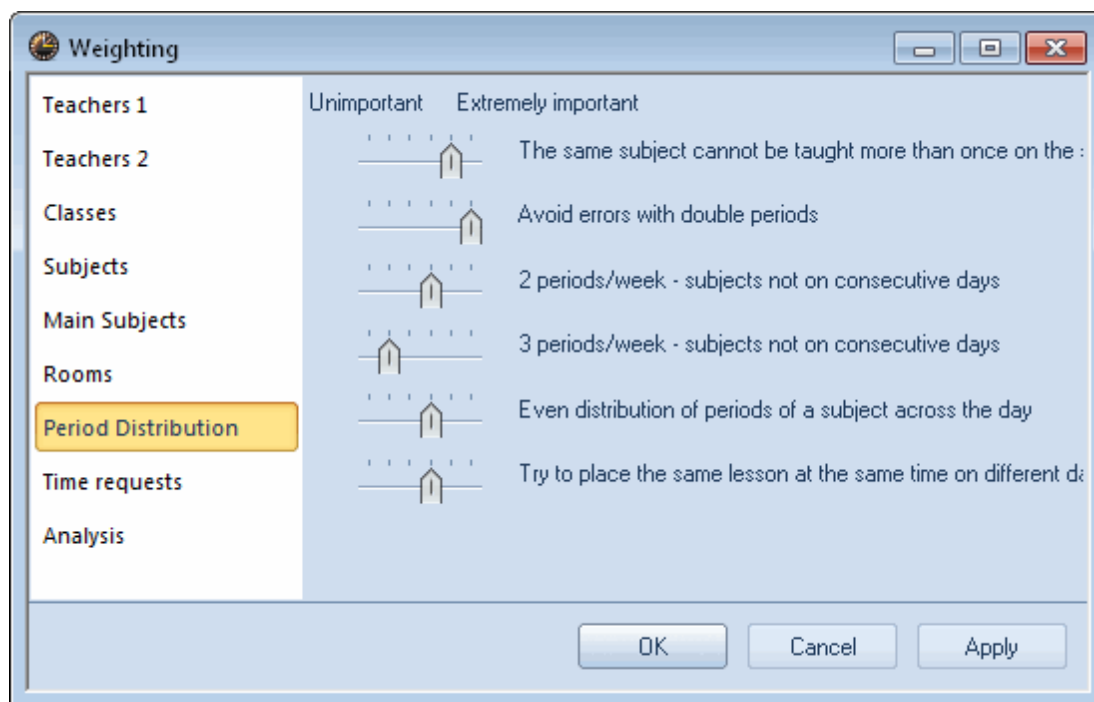
This weighting factor functions in a similar way to the previous weighting factor, but here for 3 periods in the week.

Even distribution of periods of a subject across a day

If, for example, a class has a subject in the third period on Mondays, the third period should be avoided on other days of the week. The following weighting factor achieves the opposite.

Try to place the same lesson at the same time on different days

If, for example, a class has a subject in the third period on Mondays the subject should also be taught in the third period on other days.



1.5.1.2.8 Time requests tab

You can enter time requests in the master data windows or in lessons windows by clicking on the corresponding button in the toolbar.

Time requests for teachers

Controls [time requests](#) specified in the [master data of teachers](#) .

Time requests for classes

Controls [time requests](#) specified in the [master data of classes](#) .

Time requests for subjects

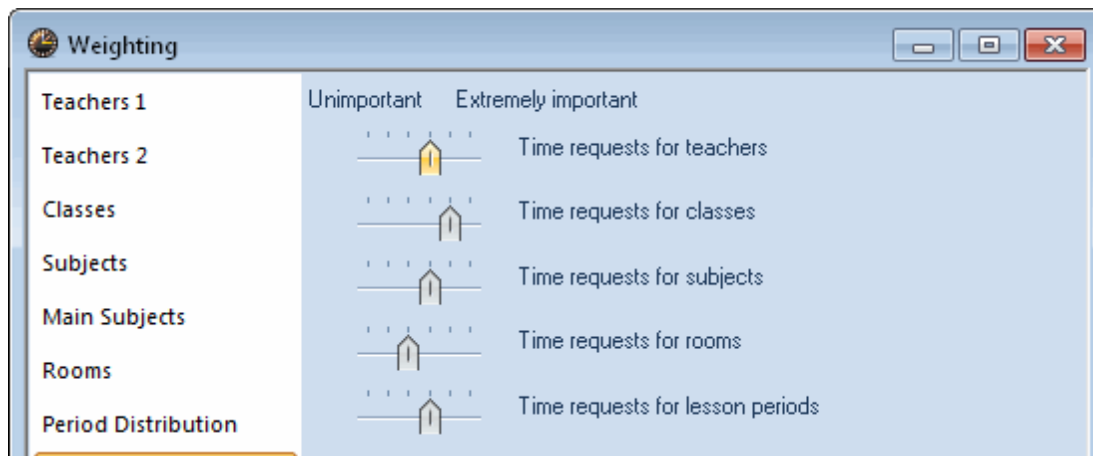
Controls [time requests](#) specified in the [master data of subjects](#) .

Time requests for rooms

Controls [time requests](#) specified in the [master data of rooms](#) .

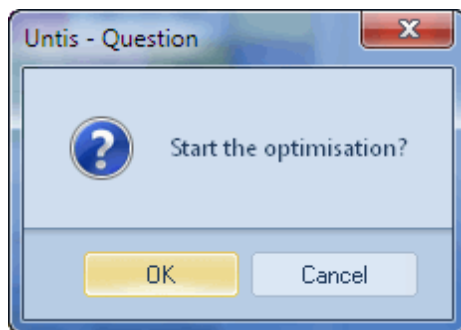
Time requests for lessons periods

Controls [time requests](#) specified in the [lessons](#) .



1.5.2 Optimisation

Via the button 'Optimisation' on the 'Start' tab you initialise the automatic generation of a timetable.



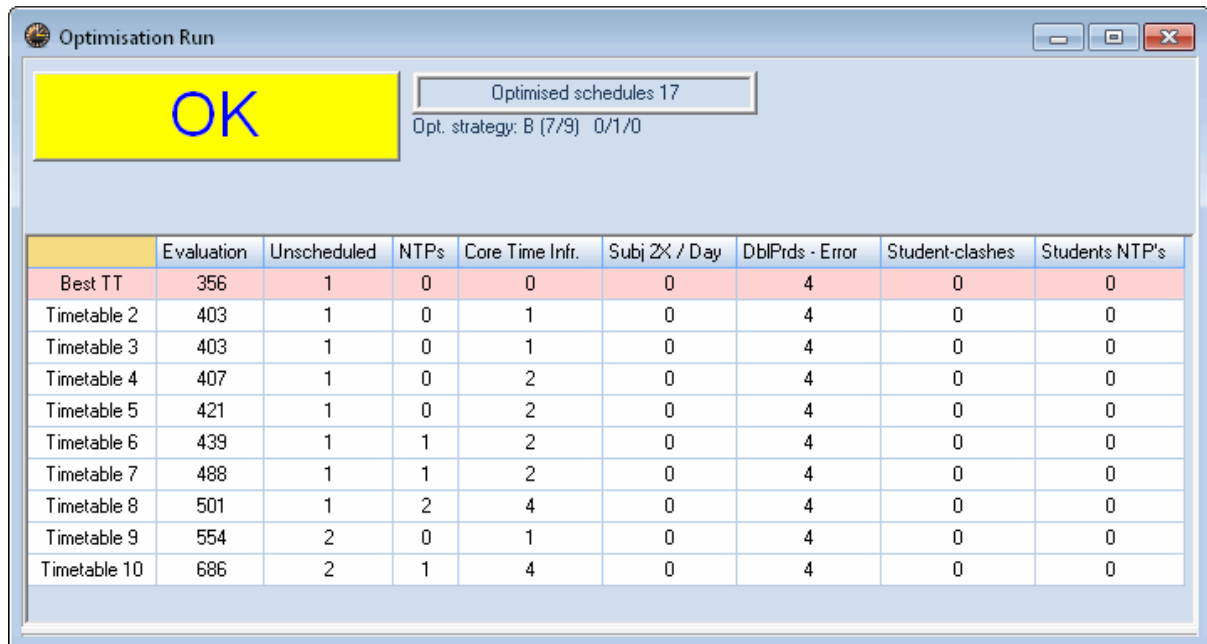
After confirming the prompt the [optimisation](#) of the timetable will start, where an [evaluation](#) will provide you with initial information on the quality of the timetable.

1.5.2.1 Optimisation

The optimisation run is the "heart" of Untis and is responsible for scheduling lessons automatically. As a general rule optimisation consists of two parts, placement optimisation and swap optimisation. During

placement optimisation the various lesson periods are inserted into the initially empty timetable beginning with the most difficult lessons. The timetable is gradually filled. The swap optimisation then attempts to switch the periods about in order to improve the result.

10 separate timetables are calculated during optimisation.



| | Evaluation | Unscheduled | NTPs | Core Time Infr. | Subj 2X / Day | DblPrds - Error | Student-clashes | Students NTP's |
|--------------|------------|-------------|------|-----------------|---------------|-----------------|-----------------|----------------|
| Best TT | 356 | 1 | 0 | 0 | 0 | 4 | 0 | 0 |
| Timetable 2 | 403 | 1 | 0 | 1 | 0 | 4 | 0 | 0 |
| Timetable 3 | 403 | 1 | 0 | 1 | 0 | 4 | 0 | 0 |
| Timetable 4 | 407 | 1 | 0 | 2 | 0 | 4 | 0 | 0 |
| Timetable 5 | 421 | 1 | 0 | 2 | 0 | 4 | 0 | 0 |
| Timetable 6 | 439 | 1 | 1 | 2 | 0 | 4 | 0 | 0 |
| Timetable 7 | 488 | 1 | 1 | 2 | 0 | 4 | 0 | 0 |
| Timetable 8 | 501 | 1 | 2 | 4 | 0 | 4 | 0 | 0 |
| Timetable 9 | 554 | 2 | 0 | 1 | 0 | 4 | 0 | 0 |
| Timetable 10 | 686 | 2 | 1 | 4 | 0 | 4 | 0 | 0 |

The optimisation is finished as soon as a blue "OK" is displayed on a yellow background in the optimisation window. The time needed for optimisation depends on the computing power of your PC and the size of your school.

Tip: Switching between optimisation results

Following optimisation you will see a list of all optimisation results in the optimisation dialogue. As long as this window is open, you can conveniently switch to another result by clicking on the desired timetable in this list. This plan will be displayed directly in the timetable windows and in the [diagnosis](#) (when you click on <Refresh list>).

1.5.2.2 Evaluation

Certain parameters in the optimisation dialogue window provided information on the quality of the timetable. The [diagnosis](#) is available for a more thorough analysis.

| | Evaluation | Unscheduled | NTPs | Core Time Infr. | Subj 2X / Day | DblPrds - Error | Student-clashes | Students NTP's |
|-------------|------------|-------------|------|-----------------|---------------|-----------------|-----------------|----------------|
| Best TT | 356 | 1 | 0 | 0 | 0 | 4 | 0 | 0 |
| Timetable 2 | 403 | 1 | 0 | 1 | 0 | 4 | 0 | 0 |

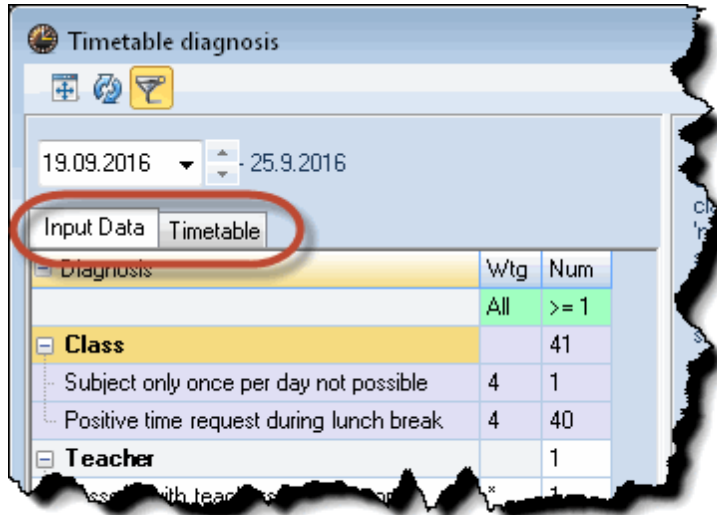
Each violation of one of your specifications (e.g. master data or lesson entries) will be given penalty points. These points are rated according to the weighting values you specified, and this finally results in a total of penalty points for your school's timetable as an indication of the quality of the timetable. The

lower the total, the fewer violations of your specifications.

1.5.3 Diagnosis

The diagnosis assists you in checking your input data regarding consistency and to analyse generated timetables according to different criteria.

Diagnosis items for 'input data' and 'Timetable' have individual tabs on the left side of the window..



The diagnosis window consists of two sections: on the left you see the diagnosis selection pane, on the right the diagnosis details pane. You now can choose any diagnostic item in the diagnosis selection pane and the details pane will display the lesson and the class which is related to it.

Timetable diagnosis

19.09.2016 - 25.9.2016

Input Data | Timetable

| Diagnosis | Wtg | Num |
|--|------|-----|
| All | >= 1 | |
| Class | | 41 |
| Subject only once per day not possible | 4 | 1 |
| Positive time request during lunch break | 4 | 40 |
| Teacher | | 1 |
| Lessons with teachers without rooms | * | 1 |
| Room | | 2 |
| 2 teachers in the same room | | |

Type of diagnosis

Unitis tries to schedule a certain subject no more than once per day per class. Unitis enforces this rule comprehensively, such that it checks the 'names' of the subjects of the individual lessons of a class and does not schedule these lessons on the same day, even if you actually meant different student-groups, e.g. in Math. The subjects listed would have to be scheduled on more days per class than there actually are available for scheduling.

Weighting: 4
Number: 1

[Show related windows](#)

Class 2b (Andersen) / Class

| L-No. | Cl | Tr | UnSc | Per | YrsPrds | Teacher | Subject | Class(es) | Subject roo | Home room | Double p |
|-------|----|----|------|-----|---------|---------|---------|-------------|-------------|-----------|----------|
| 11 | 4 | 1 | | 2 | | Hugo | GEc | 1a,1b,2a,2b | | R1a | |
| 6 | 3 | 7 | | 1 | | Callas | CH | 2a,2b,3a | | R2a | |
| 75 | 2 | 2 | | 3 | | Rub | PEB | 2b,2a | SH1 | R2b | |
| 81 | 2 | 2 | | 2 | | Curie | TX | 2b,2a | TW | R2b | 1-1 |
| 94 | 2 | 1 | | 1 | | New | GA | 2a,2b | | R2a | |
| 8 | | | | 2 | | New | PH | 2b | PL | R2b | |
| 34 | | | | 5 | | Callas | DE | 2b | | R2b | |
| 37 | | | | 2 | | Callas | MU | 2b | | R2b | |
| 42 | | | | 2 | | Callas | AR | 2b | | R2b | 1-1 |
| 49 | | | | 2 | | Nobel | RE | 2b | | R2b | |
| 55 | | | | 2 | | Rub | HI | 2b | | R2b | |
| 66 | | | | 2 | | Cer | BI | 2b | | R2b | |
| 72 | | | | 1 | | Curie | TX | 2b | TW | R2b | |
| 93 | | | | 5 | | New | MA | 2b | | R2b | |

Time requests / Lessons

8 Lessons

☐ Time requests of the lesson
☐ Time requests of all elements
☐ Time requests without rooms

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------|---|---|---|---|---|---|---|---|
| Monday | | | | | | | | |
| Tuesday | | | | | | | | |
| Wednesday | | | | | | | | |
| Thursday | | | | | | | | |
| Friday | | | | | | | | |
| Saturday | | | | | | | | |

Monday

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Day |
|----------|----|----|----|----|---|---|---|---|-----|
| Callas | | | | | | | | | |
| Gauss | | | | | | | | | |
| Andersen | | | | | | | | | |
| Rub | | | | | | | | | |
| Hugo | | | | | | | | | |
| Nobel | | | | | | | | | |
| ?-1 | | | | | | | | | |
| 2a | +3 | +3 | +3 | +3 | | | | | |
| 2b | +3 | +3 | +3 | +3 | | | | | |
| 3a | +3 | +3 | +3 | +3 | | | | | |
| CH | | | | | | | | | |
| MA | | | | | | | | | |
| EN | | | | | | | | | |
| DE | | | | | | | | | |
| R2a | | | | | | | | | |

Note: Show related windows

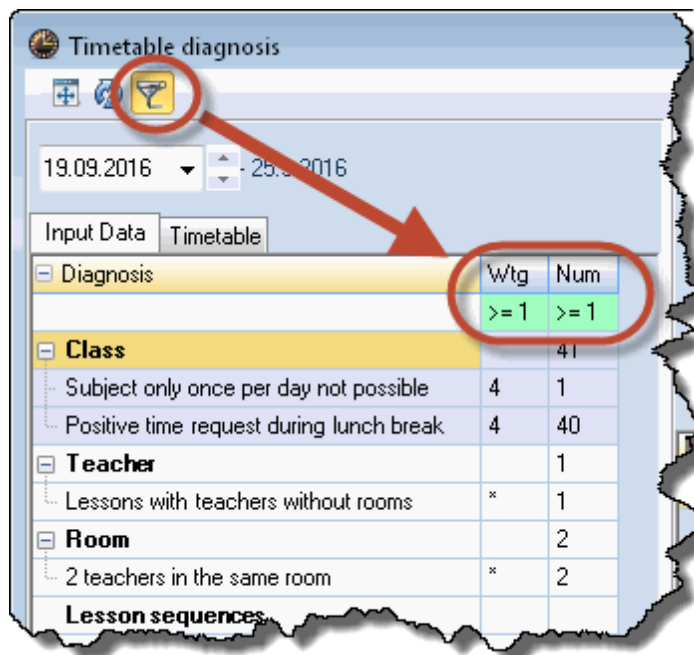
The right part of the diagnosis window shows an explanation to each diagnosis item. By clicking on the link 'Show related windows' the windows relevant to this diagnosis item open.

Furthermore this window has its own menu bar:

- Resize window: The diagnosis window is adjusted to the ideal size similar to the buttons in the master data and lesson windows.

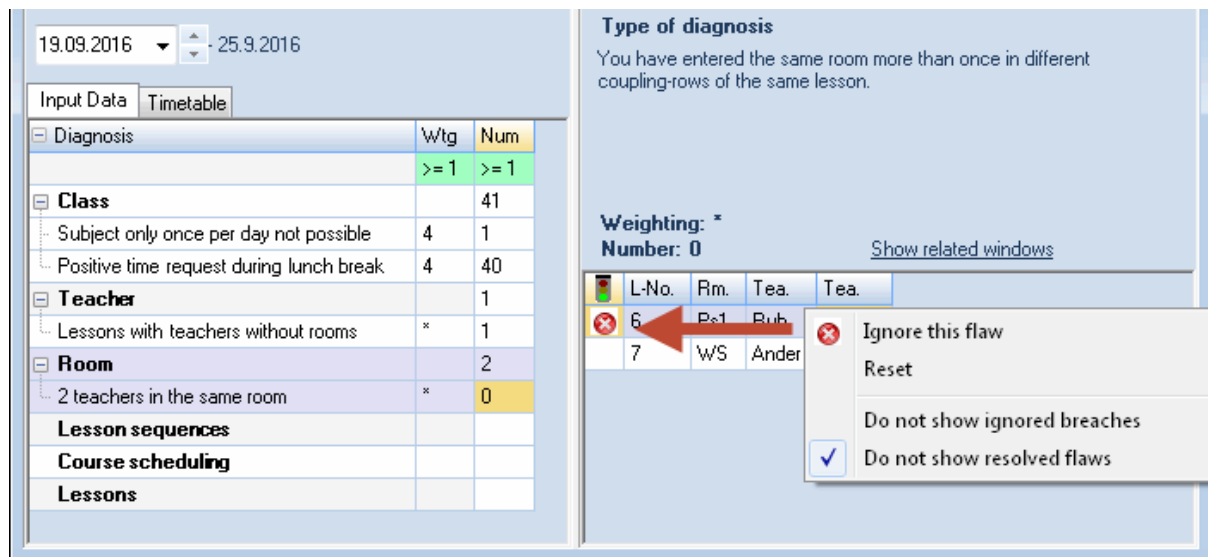
-Refresh window: the diagnosis window is refreshed.

- Filter: By clicking on this button a filter line is displayed which enables you to filter the diagnosis items just like the button in the master data and lessons window. The diagram below, for instance, shows only diagnosis items with at least one violation and whose weighting is a least 1.



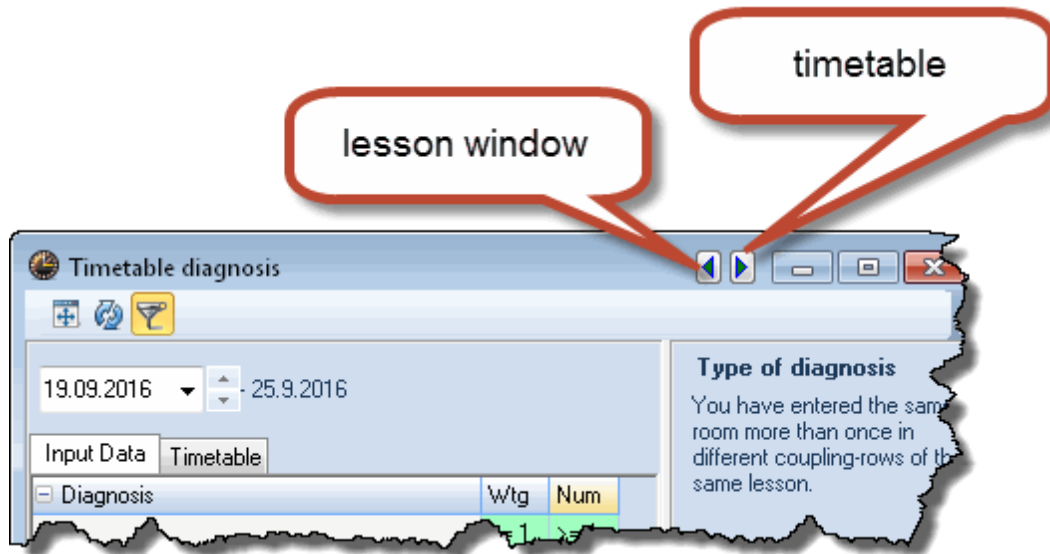
Hide diagnosis items

The diagnosis displays possible errors of input data and in the timetable. In some cases the data was intentionally entered this way and therefore it should not be displayed any more. Right-click on the respective item in the list and select 'Ignore this flaw'. This item is now marked with a white 'X' in a red circle. Additionally you can select 'Do not show ignored breaches' and the marked violations are not displayed any more.



Note: Additional windows

You can use the two small arrows at the top of the window to open a lessons window and a timetable, which allows you to analyse the violations quickly and easily.</p>



1.6 Manual scheduling

For [placing unscheduled periods](#) as well as [moving](#) and [deleting](#) scheduled periods Untis Express provides an absolutely simple possibility for which does not even involve learning new windows.

There are several functions for manual scheduling in the timetable:

- [scheduling periods](#)
- [locking periods](#)
- [moving periods](#)
- [deleting periods](#)
- [allocating rooms](#)

Tip: Closing all windows

Use the <Ctrl> + K key combination if you wish to close all open windows quickly.

1.6.1 Shifting periods

There are three possibilities for moving periods in the timetable:

1. Moving to an empty period
2. Swapping periods
3. Scheduling periods with clashes

Moving to an empty period

If you drag a period away from its position with the mouse, potential so far empty locations suitable for a move will be marked green.

| | Mo | Tu | We | Th | Fr | Sa |
|---|------|-----|------|----|------|------|
| 1 | BI | DE | GEc. | DE | TX | |
| 2 | MA | DE | PEG. | MA | HI | DE |
| 3 | RE | RE | MU | AR | DS. | DE |
| 4 | PEG. | MA | MA | AR | MA | GEc. |
| 5 | DE | | | AR | | |
| 6 | | | | | | |
| 7 | | DS. | | | BI | |
| 8 | | DS. | | | PEG. | |

Possible (free) positions for moving of "RE" (Mo,3)

Swapping periods

If you drag a period away from its position with the mouse, potential swap partners will be marked green.

| | Mo | Tu | We | Th | Fr | Sa |
|---|----|------|------|-------|-----|------|
| 1 | RE | MA | GEc. | | RE | |
| 2 | MA | MA | MU | DE | PH | DE |
| 3 | AR | PEB. | TX | BI | BI | DE |
| 4 | AR | PH | DE | HI | MA | GEc. |
| 5 | MU | HI | *CH. | MA | | |
| 6 | | | | | GA. | |
| 7 | | | | *PEB. | TX. | |
| 8 | | | | *PEB. | TX. | |

Possible swap partners for "MA" (Monday-2)

Scheduling periods with collisions

You can also generate clashes. Drag a period, drop it on another and select the type of clash you wish to allow.

| | Mo | Tu | We | Th | Fr | Sa |
|---|----|------|------|-------|-----|------|
| 1 | RE | MA | GEc. | | RE | |
| 2 | MA | MA | MU | DE | PH | DE |
| 3 | AR | PEB. | TX | BI | BI | DE |
| 4 | AR | PH | DE | HI | MA | GEc. |
| 5 | MU | HI | *CH. | MA | | |
| 6 | | | | | GA. | |
| 7 | | | | *PEB. | TX. | |
| 8 | | | | *PEB. | TX. | |

Possible Swapchain of "MA"

1.6.2 Scheduling periods

From the lessons' window

To schedule a lesson from the lessons' window you need two windows: the lessons' window and the timetable.

The "UnSched Prds" column indicates the number of unscheduled periods and also a hand showing that these periods may be scheduled manually.

You can use drag&drop to take hold of the hand in the "UnSched Prds" column and to drag it to the timetable where you can drop it.

Class 1a (Gauss) / Class

| L-No. | Cl,Te. | UnSched Prds | Per | YrsPrds | Teacher | Subject | Class(es) | Subject room | Home room | Double pers. |
|-------|--------|--------------|-----|---------|---------|---------|-------------|--------------|-----------|--------------|
| 11 | 4, 1 | 2 | 2 | | Hugo | GEc | 1a,1b,2a,2b | | R1a | |
| 7 | 2, 3 | 2 | 2 | | Ander | DS | 1a | WS | R1a | 1-1 |
| 73 | 2, 2 | 3 | 3 | | Arist | PEG | 1a,1b | SH2 | R1a | |
| 31 | | 5 | 5 | | Arist | MA | 1a | | R1a | |
| 33 | | 5 | 5 | | | | | | R1a | |
| 35 | | 2 | 2 | | Callas | MU | 1a | | R1a | |
| 39 | | 2 | 2 | | Callas | AR | 1a | | R1a | 1-1 |
| 46 | | 2 | 2 | | Nobel | RE | 1a | | R1a | |
| 53 | | 5 | 5 | | Rub | DE | 1a | | R1a | |
| 63 | | 2 | 2 | | Cer | BI | 1a | | R1a | |

1a - Class 1a (Gauss) Timetabl...

School year: 19.9.2016 - 30.6.2017

| | Mo | Tu | We | Th | Fr | Sa |
|---|----|----|----|----|----|----|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |

Drag&Drop

| L-No. | Tea. | Subj. | Rm. | Clas. | Special text |
|-------|------|-------|-----|-------|--------------|
| +3 | | | | | |

Note: Background colour

Various shades of green indicate the suitability of the lesson and its scheduling. The more intensive the green, the more suitable the lesson in this place in the time grid from a scheduling point of view. Red fields mean that an element is blocked or that the evaluation of the schedule as a whole would be significantly impaired by the change. You cannot drag lessons on a white background.

From the timetable window

Alternatively, you can schedule lessons directly from the timetable window. The unscheduled periods are displayed next to the timetable by enlarging the window to the right or by clicking on the button < Resize the window>. These lessons can be scheduled with drag&drop.

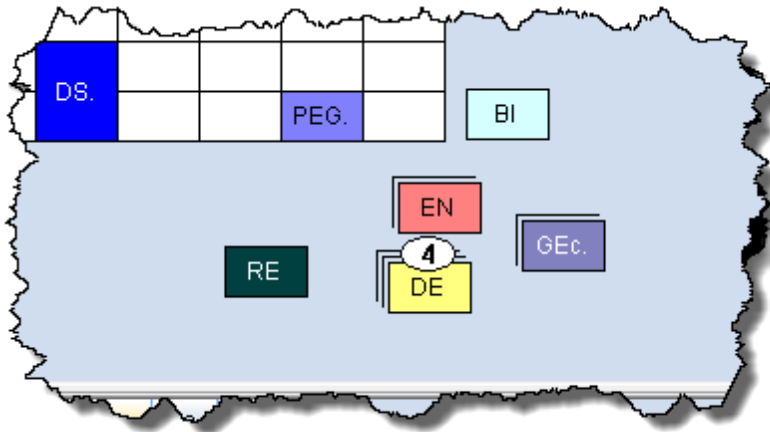
Resize the window

| UnSc 2/28 | Mo | Tu | We | Th | Fr | Sa |
|--------------|------|-----|------|----|------|------|
| 1 | EN | MA | GEc. | MU | MA | BI |
| 2 | MU | EN | PEG. | DE | RE | EN |
| 3 | BI | AR | MA | EN | EN | MA |
| 4 | PEG. | | DE | MA | DE | GEc. |
| 5 | | RE | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | DS. | | | PEG. | |

| L-No. | Tea. Subj. Rm. | Cla. | Special text |
|-------|----------------|------|--------------|
| 53 | Rub, DE, (R1a) | 1a | |

Note: Order of the lessons

You can place the lessons below and to the right of the timetable as you wish.

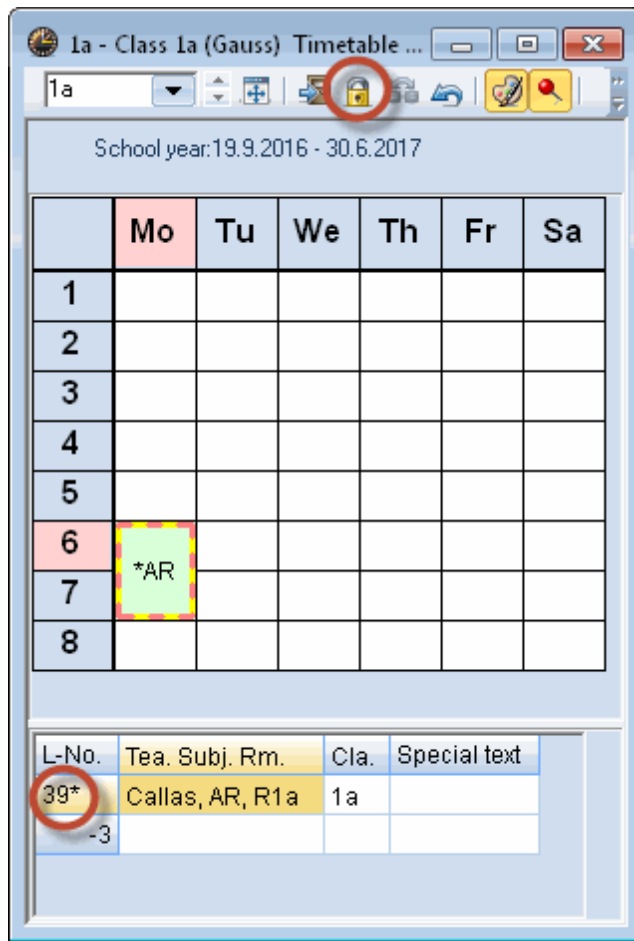


Each individual step can be undone by using the <Undo changes> button in the toolbar of the timetable.

1.6.3 Locking periods

If you wish to lock scheduled periods manually, click on the <Lock period> button in the timetable.

Locked periods will not be moved during optimisation and will always retain their place in the timetable.



The lock is indicated by an * (asterisk) directly in the timetable and next to the lesson number in the period details window.

Note: Locking at other levels

You can use the 'Lock (X)' column to lock lessons and master data elements. Please refer to [Entries for all master data elements and lessons](#).

1.6.4 Deleting periods

You can delete (unschedule) periods by dragging them into the timetable details section of the window and dropping them there.

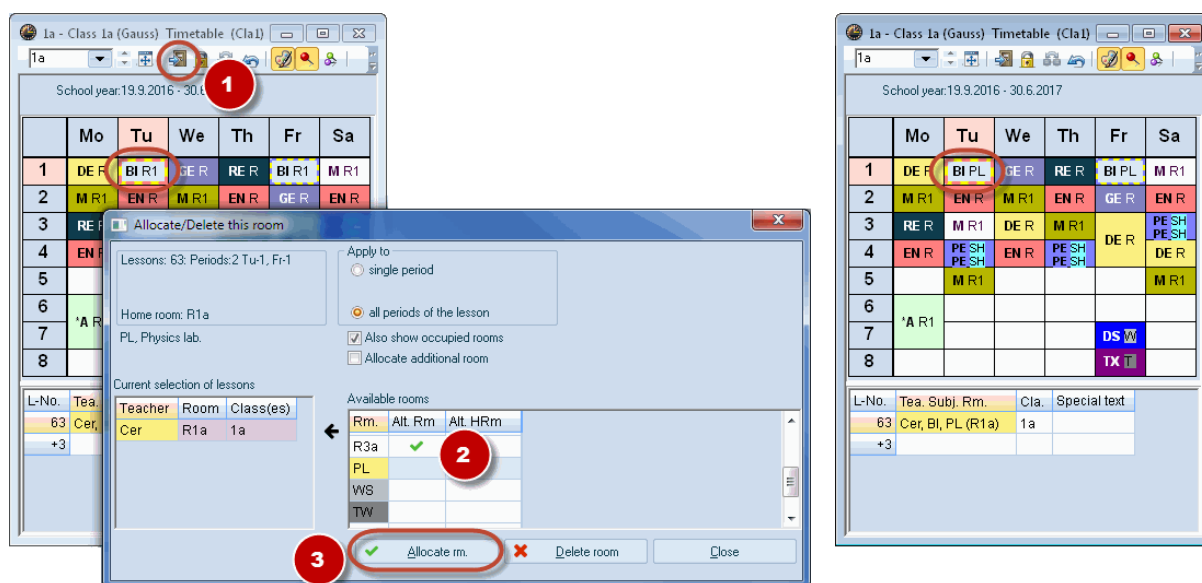
The screenshot shows a software window titled "1a - Class 1a (Gauss) Timetable (Cl1)". The window contains a timetable grid for the school year 19.9.2016 - 30.6.2017. The grid has columns for days of the week (Mo, Tu, We, Th, Fr, Sa) and rows for periods (1 to 8). The cells contain subject abbreviations and room numbers, some with icons. A red arrow points from the cell (1, Mo, DE) to the cell (8, Th, OS.), with the text "Drag&Drop" next to it. Below the grid is a table with columns: L-No., Tea. Subj. Rm., Cla., and Special text. The table contains one row with the value "-3" in the L-No. column and "1a We-8: -3" in the Tea. Subj. Rm. column.

| | Mo | Tu | We | Th | Fr | Sa |
|---|-----|------|------|------|------|------|
| 1 | DE | BI | GEc. | RE | BI | PMU |
| 2 | MA | EN | MA | EN | GEc. | EN |
| 3 | RE | MO | DE | MA | DE | PEG. |
| 4 | EN | PEG. | EN | PEG. | DE | DE |
| 5 | | MA | | | | MA |
| 6 | *AR | | | | | |
| 7 | *AR | | | | DS. | |
| 8 | | | | OS. | | |

| L-No. | Tea. Subj. Rm. | Cla. | Special text |
|-------|----------------|------|--------------|
| -3 | 1a We-8: -3 | | |

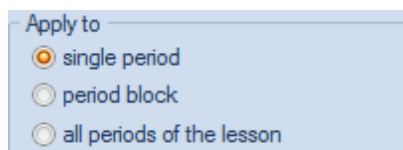
1.6.5 Allocating rooms

You can also manage room allocation directly in the timetable window. Use the <Allocate/delete this room> (1) button to allocate rooms to scheduled periods or to delete already scheduled rooms (2,3).



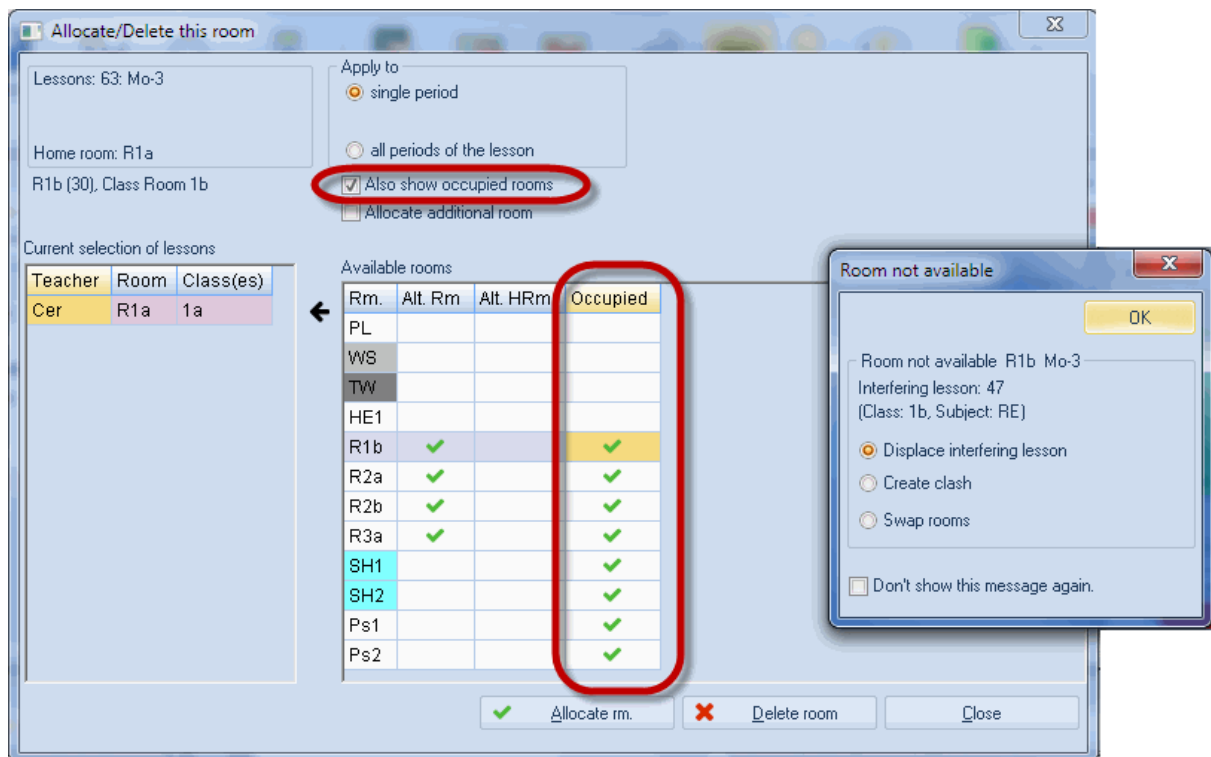
Allocating rooms for block periods / all lesson periods

If you wish perform room allocation to a block of periods or to all periods of a lesson you can make the appropriate selection in the selection box in the top left.



Occupied rooms

Check the option "Also show occupied rooms" in the "Allocate/delete this room" dialogue if, in addition to the available rooms, you wish to list all those rooms that are not available at the time in question. They are indicated by the "Occupied" flag. Assigning an occupied room to a lesson, you can override the obstructing room, generate a clash or swap the rooms.



1.6.6 Swap suggestions

You can use the <Suggested swaps> button on the 'Start' tab to automatically display how the active period could be swapped within the class and across classes. To this end Untis evaluates the timetable based on your weighting settings and indicates if the quality of the timetable would be better or worse.

Suggested swaps

| | Conseqnc. | Leap cl. | Gain |
|----|---------------------------------|----------|-------|
| 1 | Subject twice a day | 4 | 244 |
| 2 | Subject twice a day | 4 | 238 |
| 3 | Subject twice a day | 1a | 250 |
| 4 | Teacher not available | 3a | 76 |
| 5 | Subject twice a day | 1a | 238 |
| 6 | Subject twice a day | 1a | 173 |
| 7 | Period time requests | 2a | -148 |
| 8 | Main subjects - Boundary period | | -9 |
| 9 | Main subjects - Boundary period | | -42 |
| 10 | Subject twice a day | | -61 |
| 11 | Subject twice a day | | -294 |
| 12 | Subject twice a day | 2b | -736 |
| 13 | Subject twice a day | 2a | 117 |
| 14 | Subject twice a day | | -799 |
| 15 | Subject twice a day | | -1489 |

Refresh
Swap
Close
Print

☒ With class
☐ Only different t...
☐ Show details

1b - Class 1b (Newton) Timetable

School year: 19.9.2016 - 30.6.2017

1b Rub

| UnSc 1/29 | Mo | Tu | We | Th | Fr | Sa | MA |
|--------------|------|-----|------|----|------|------|----|
| 1 | BI | DE | GEc | DE | TX | | |
| 2 | MA | DE | PEG. | MA | HI | DE | |
| 3 | RE | RE | MU | AR | DS. | DE | |
| 4 | PEG. | MA | MA | AR | MA | GEc. | |
| 5 | DE | | | AR | | | |
| 6 | | | | | | | |
| 7 | | DS. | | | BI | | |
| 8 | | DS. | | | PEG. | | |

| L-No. | Tea. Subj. Rm. | Cla. | Special text |
|-------|------------------|------|--------------|
| 30 | Arist, MA, (R1b) | 1b | |

With class leaps

It is often necessary to perform swaps across several classes. In order to enable a swap to be made in one class it is first necessary to perform a swap in another class - the so-called leap class. If you check the option 'With class leaps', these types of possibilities to swap will be offered.

Suggested swaps

| | Conseqnc. | Leap cl. | Gain |
|----|---------------------------------|----------|-------|
| 1 | Subject twice a day | 4 | 244 |
| 2 | Subject twice a day | 4 | 238 |
| 3 | Subject twice a day | 1a | 250 |
| 4 | Teacher not available | 3a | 76 |
| 5 | Subject twice a day | 1a | 238 |
| 6 | Subject twice a day | 1a | 173 |
| 7 | Period time requests | 2a | -148 |
| 8 | Main subjects - Boundary period | | -9 |
| 9 | Main subjects - Boundary period | | -42 |
| 10 | Subject twice a day | | -61 |
| 11 | Subject twice a day | | -294 |
| 12 | Subject twice a day | 2b | -736 |
| 13 | Subject twice a day | 2a | 117 |
| 14 | Subject twice a day | | -799 |
| 15 | Subject twice a day | | -1489 |

Class 1b (Newton) Timetable

School year: 19.9.2016 - 30.6.2017

| UnSc 1/29 | Mo | Tu | We | Th | Fr | Sa |
|-----------|------|-----|------|----|------|------|
| 1 | BI | DE | GEc. | DE | TX | |
| 2 | MA | DE | PEG. | MA | HI | DE |
| 3 | RE | RE | MU | AR | DS. | DE |
| 4 | PEG. | MA | MA | AR | MA | GEc. |
| 5 | DE | | | AR | | |
| 6 | | | | | | |
| 7 | | DS. | | | BI | |
| 8 | | DS. | | | PEG. | |

Class NTP's

| | Conseqnc. | Gain | Total |
|---|----------------------|------|-------|
| 1 | Class NTP's | 28 | 272 |
| 2 | Period time requests | -126 | 146 |
| 3 | Period time requests | -142 | 102 |
| 4 | Period time requests | -177 | 67 |
| 5 | Period time requests | -183 | 61 |
| 6 | Period time requests | -229 | 15 |
| 7 | Period time requests | -229 | 15 |
| 8 | Period time requests | -253 | -9 |
| 9 | Lunch break min-max. | -335 | -91 |

The above example shows that the swap in class 1b would result in a 24-point improvement, therefore a swap in the leap class 1a is possible which brings about a highly ranked improvement, since a lesson scheduled on a locked period can be swapped.

The timetable in the above examples will clearly be improved.

Note:

The suggested swaps window list the swaps in the order of their evaluation with the best swaps right at the top. The 'Gain' column in the upper window pane will only list the evaluation of the first swap for a swap with class leaps (base class). The sort order in the upper window pane uses the total between the evaluations of the first swap and the best possible second swap. The total evaluation for both swaps is displayed in the lower window pane.

Warning: Swap period

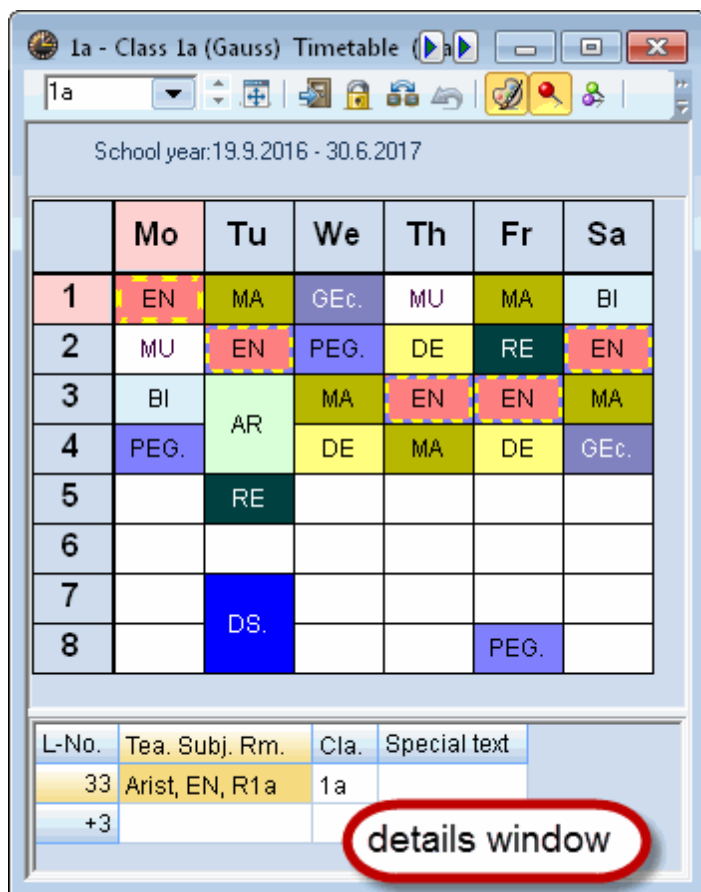
If you want to swap the period which is the basis for the swap suggestions, first click on the period in the timetable you want to get swap suggestions to. Then click on the 'Refresh' button for refreshing the suggested swaps.

1.7 Timetables

Untis aims to calculate a good timetable. This should then be easily readable and adapted to the requirements of those it is intended to serve (teachers, students, school office etc.). The following chapters first deal with the [timetable window](#) in general. We will then look at various formats and learn how to change the [layout](#) . Finally we will also have a look at [printing timetables](#).

1.7.1 The timetable window

Generally speaking, the timetable window consists of two parts: the actual timetable and the timetable details window.



You can enter the name of the element that you wish to see directly in the input field at the top left. You can also use the spin controls located on the right of the input field to switch between elements.

Timetable window

The timetable window displays the actual timetable, and you can decide for yourself what information is displayed (please refer to chapter ' [Timetable layout](#) ').

Timetable details window

Depending on the circumstances all information relating to a lesson period cannot / should not be

displayed in the timetable. However, you will find all information in the details window. This is especially helpful when couplings are involved.

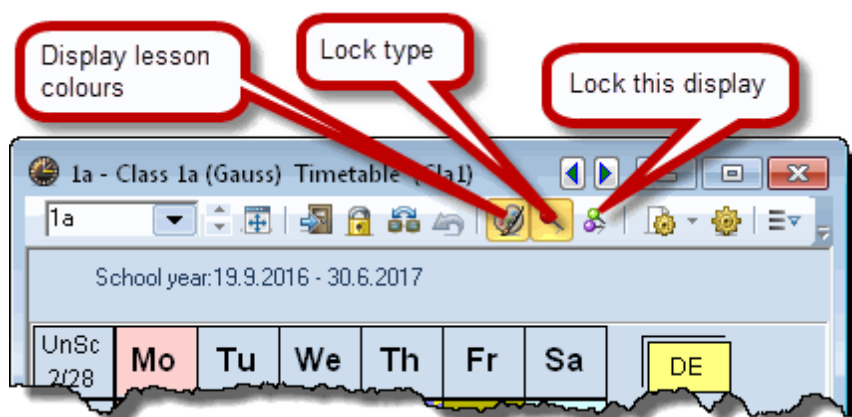
1.7.1.1 Timetable interaction

The timetable windows synchronise automatically just like many other windows in Untis. This means that the timetables cannot only be set manually but are adjusted automatically - if desired - to each element selected in another window. You will thus always have up-to-date information on the screen without having to search for it.



1.7.1.2 Locking - colours

You can deactivate automatic synchronisation:



Lock type

Clicking on this button means that the type of timetable (teachers, classes, rooms) will stay the same.

Lock this display

Clicking on this button means that the view with the current element (e.g. class 3a) will stay the same.

Colours

This function allows you to activate or deactivate the display of colours defined in the master data or for lessons.

1.7.2 Timetable formats

You can access the different timetables for classes, teachers and rooms via the taba 'Timetables'. These predefined timetable formats can be customised to suit your needs (please refer to the chapter [Timetable layout](#)). Below we use the class timetable as an example that applies to each timetable format

- [Class timetable portrait/landscape](#)
- [Class schedule big](#)
- [Classes overview portrait](#)
- [Classes overview landscape](#)

1.7.2.1 Timetable portrai/landscape

By default these timetables only show one master data element (e.g. the subject in the class timetable). Further information (such as room and couplings) are displayed in a details window.

| | Mo | Tu | We | Th | Fr | Sa |
|---|------|-----|------|----|------|------|
| 1 | EN | MA | GEc. | MU | MA | BI |
| 2 | MU | EN | PEG. | DE | RE | EN |
| 3 | BI | AR | MA | EN | EN | MA |
| 4 | PEG. | | DE | MA | DE | GEc. |
| 5 | | RE | | | | |
| 6 | | | | | | |
| 7 | | DS. | | | | |
| 8 | | | | | PEG. | |

| L-No. | Tea. Subj. Rm. | Cla. | Special text |
|-------|-----------------|------|--------------|
| 35 | Callas, MU, R1a | 1a | |
| +3 | | | |

1a - Class 1a (Gauss) Timetable (Cla10)

School year: 19.9.2016 - 30.6.2017

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----|------|------|----|------|----|---|-----|------|
| Mo | EN | MU | BI | PEG. | | | | |
| Tu | MA | EN | AR | | RE | | DS. | |
| We | GEc. | PEG. | MA | DE | | | | |
| Th | MU | DE | EN | MA | | | | |
| Fr | MA | RE | EN | DE | | | | PEG. |
| Sa | BI | EN | MA | GEc. | | | | |

| L-No. | Tea. Subj. Rm. | Cla. | Special text |
|-------|----------------|------|--------------|
| 33 | Arist, EN, R1a | 1a | |
| +3 | | | |

1.7.2.2 Class schedule big

The 'Class schedule big' incorporates the settings for the [standard format](#) (subject, teacher, room and all coupling lines).

1a - Class 1a (Gauss) Timetable (Cla1A)

School year: 19.9.2016 - 30.6.2017

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|-------------------------|---|---------------------|---|---------------------|---------------------|---------------------|
| 1 8:00 8:45 | EN Arist <u>R1a</u> | MA Arist <u>R1a</u> | GEc Hug <u>R1a</u> | MU Calla <u>R1a</u> | MA Arist <u>R1a</u> | BI Cer <u>R1a</u> |
| 2 8:55 9:40 | MU Calla <u>R1a</u> | EN Arist <u>R1a</u> | PEG Aris <u>SH</u> PEB Rub <u>SH</u> | DE Rub <u>R1a</u> | RE Nobe <u>R1a</u> | EN Arist <u>R1a</u> |
| 3 9:50 10:35 | BI Cer <u>R1a</u> | AR Calla <u>R1a</u> | MA Arist <u>R1a</u> | EN Arist <u>R1a</u> | EN Arist <u>R1a</u> | MA Arist <u>R1a</u> |
| 4 10:45 11:30 | PEG Aris <u>SH</u> PEB Rub <u>SH</u> | | DE Rub <u>R1a</u> | MA Arist <u>R1a</u> | DE Rub <u>R1a</u> | GEc Hug <u>R1a</u> |
| 5 11:40 12:25 | | RE Nobe <u>R1a</u> | | | | |

1.7.2.3 Timetable | Overview classes

The class timetable overview shows all classes one below the other with the individual lesson periods next to each other.

1a - Class 1a (Gauss) Timetable (Cla20)

1a

</

1.7.2.4 Timetable | Overview classes-1

This is also an overview of all elements. In this cases, the elements are displayed next to each other and the weekly periods one below the other.

| | 1a | 1b | 2a | 2b | 3a | 3b | 4 |
|------|------|-----|------|----|------|-----|------|
| Mo-1 | EN | BI | MU | RE | HI | HI | PEG. |
| Mo-2 | MU | MA | RE | MA | EN | GEc | CK |
| Mo-3 | BI | RE | MA | AR | PEG. | | HI |
| Mo-4 | PEG. | | DE | | GA. | PH | DE |
| Mo-5 | | DE | EN | MU | MA | MA | |
| Mo-6 | | | | | | | AR |
| Mo-7 | | | | | BI | | |
| Mo-8 | | | | | | | PH |
| Tu-1 | MA | DE | AR | MA | EN | RE | DS. |
| Tu-2 | EN | | | | RE | BI | |
| Tu-3 | AR | RE | PEB. | | BI | GA. | MU |
| Tu-4 | | MA | BI | PH | DE | | BI |
| Tu-5 | RE | | MA | HI | | | MA. |
| Tu-6 | | | | | | | |
| Tu-7 | DS. | DS. | | | | | |
| Tu-8 | | | | | | | |
| We-1 | GEc. | | | | PEG. | | GA |
| We-2 | PEG. | | HI | MU | DE | TX | RE |
| We-3 | MA | MU | | TX | HI | RE | MA. |
| We-4 | RE | MA | PE | DE | MA | DE | GEc. |

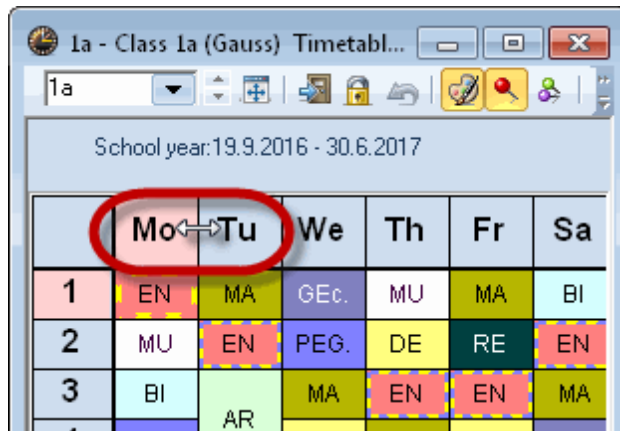
1.7.3 Timetable layout

You can also modify the pre-defined formats to match your requirements. You can [change the size](#) , display all timetables in [standard format](#) or decide what should be displayed in the [period window](#).

1.7.3.1 Adjusting timetable size

If you move the cursor to the line separating Monday and Tuesday you will see a small, double-headed arrow and you can adjust the width of the column.

You can adjust the row height in the same way – just move the cursor to the line separating rows 1 and 2.



| | Mo | Tu | We | Th | Fr | Sa |
|---|----|----|------|----|----|----|
| 1 | EN | MA | GEc. | MU | MA | BI |
| 2 | MU | EN | PEG. | DE | RE | EN |
| 3 | BI | AR | MA | EN | EN | MA |

1.7.3.2 Standard format

Clicking the right mouse-button in the timetable displays a context menu where you can select the option 'Timetable period: standard format'. This setting displays all the main elements of the period. If couplings are involved, all coupling lines will be displayed. The font size will be adjusted to match the space available.

1a - Class 1a (Gauss) Timetable (Cla1A)

School year: 19.9.2016 - 30.6.2017

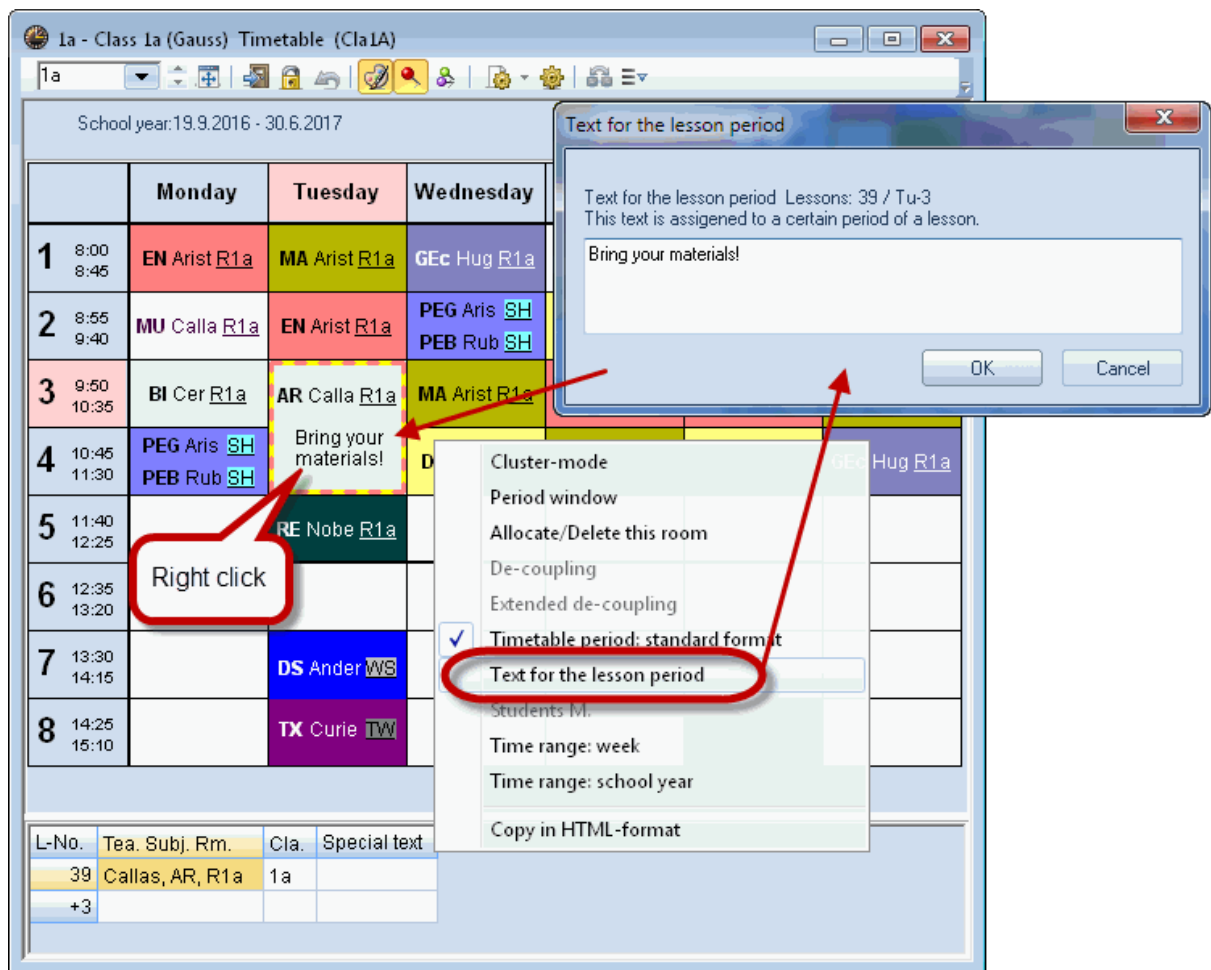
| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|------------------|---------------------------|--------------|---------------------------|--------------|--------------|--------------|
| 1 8:00 8:45 | EN Arist R1a | MA Arist R1a | GEc Hug R1a | MU Calla R1a | MA Arist R1a | BI Cer R1a |
| 2 8:55 9:40 | MU Calla R1a | EN Arist R1a | PEG Aris SH PEB Rub SH | DE Rub R1a | RE Nobe R1a | EN Arist R1a |
| 3 9:50 10:35 | BI Cer R1a | AR Calla R1a | MA Arist R1a | EN Arist R1a | EN Arist R1a | MA Arist R1a |
| 4 10:45 11:30 | PEG Aris SH PEB Rub SH | | DE Ru | | | R1a |
| 5 11:40 12:25 | | RE Nobe R1a | | | | |
| 6 12:35 13:20 | | | | | | |
| 7 13:30 14:15 | | DS Ander WS | | | | |
| 8 14:25 15:10 | | TX Curie TW | | | | |

- Cluster-mode
- Period window
- Allocate/Delete this room
- De-coupling
- Extended de-coupling
- ☒ Timetable period: standard format
- Text for the lesson period
- Students M.
- Time range: week
- Time range: school year
- Copy in HTML-format

| L-No. | Tea. Subj. Rm. | Cla. | Special text |
|-------|----------------|------|--------------|
| 31 | Arist, MA, R1a | 1a | |
| +3 | | | |

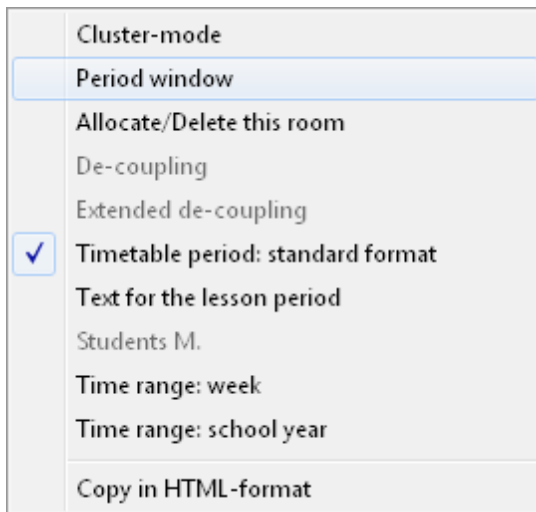
1.7.3.3 Text for the lesson period

In the timetable standard format (e.g. Class big) it is possible to add a text to a certain period in the timetable. Right click in the desired period in the timetable and select "Text for the lesson period".



1.7.3.4 Period window

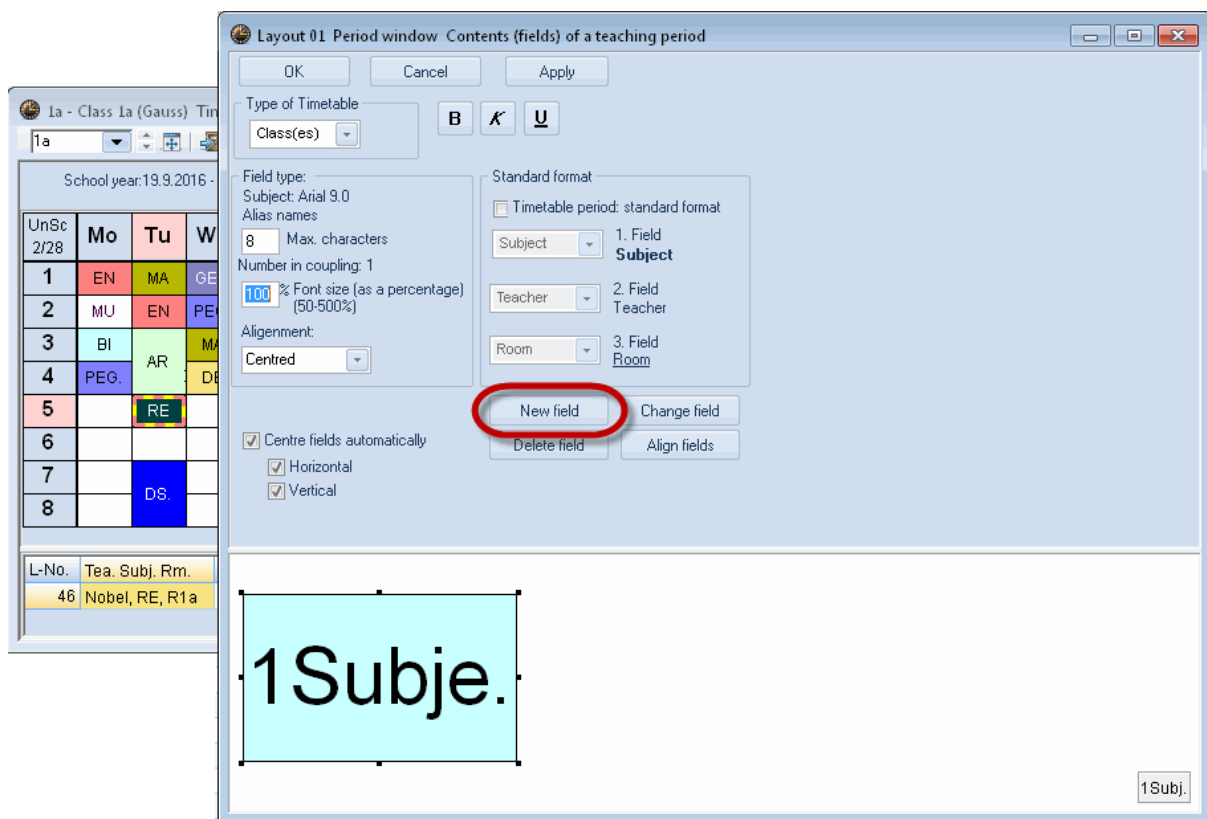
You can also define which contents should be displayed in the timetable fields. Click on <Settings> in the timetable window or open the context menu (right mouse click) and activate the option 'Period window'.



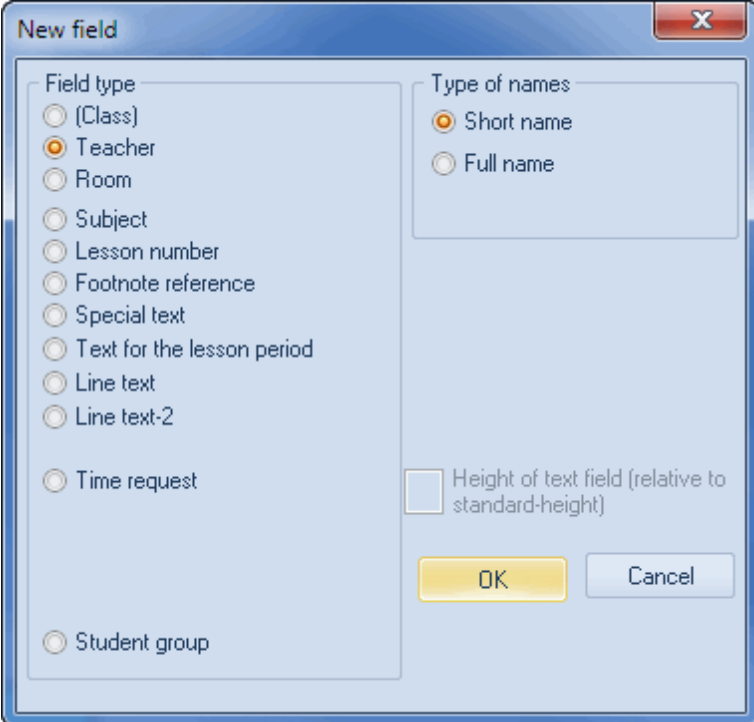
Using this editor you can [display new elements](#) , [change the order of elements](#) and edit the layout with [additional settings](#).

1.7.3.4.1 Adding/deleting fields

Click on the <New field> button in the period window, if you wish to add a new field to the timetable display.



Another window will open in which you can select the contents of the new field.



New field

Field type

- ☐ (Class)
- ☒ Teacher
- ☐ Room
- ☐ Subject
- ☐ Lesson number
- ☐ Footnote reference
- ☐ Special text
- ☐ Text for the lesson period
- ☐ Line text
- ☐ Line text-2
- ☐ Time request
- ☐ Student group

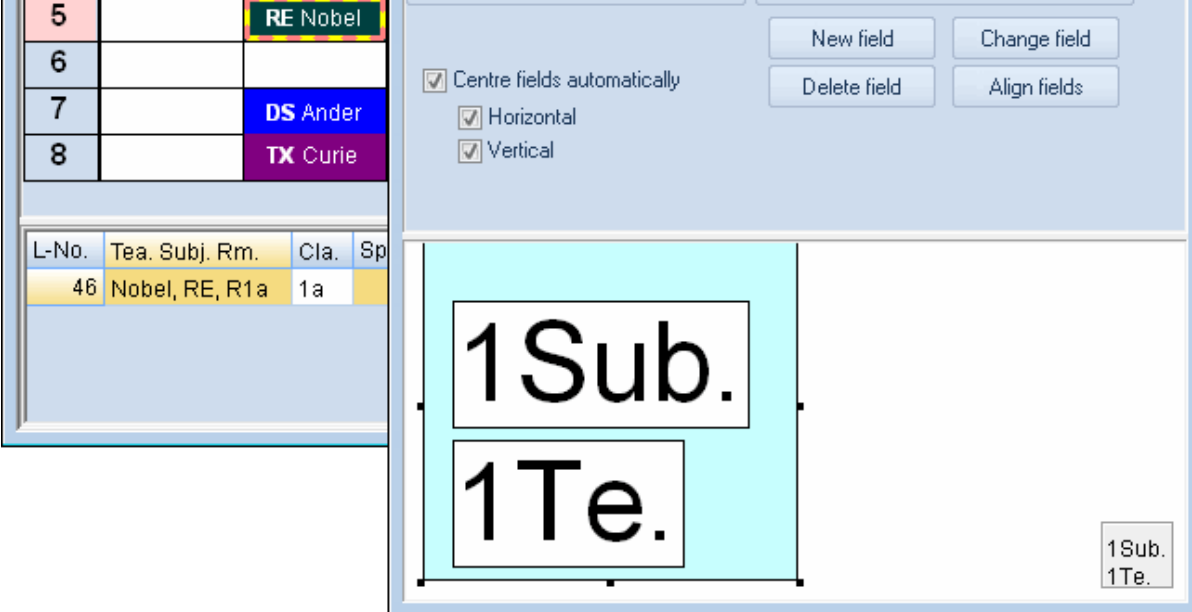
Type of names

- ☒ Short name
- ☐ Full name

☐ Height of text field (relative to standard-height)

OK Cancel

You can, for example, choose to display the teacher in the class timetable:



5 RE Nobel

6

7 DS Ander

8 TX Curie

L-No. Tea. Subj. Rm. Cla. Sp

46 Nobel, RE, R1a 1a

☒ Centre fields automatically

☒ Horizontal

☒ Vertical

New field Change field Delete field Align fields

1Sub.

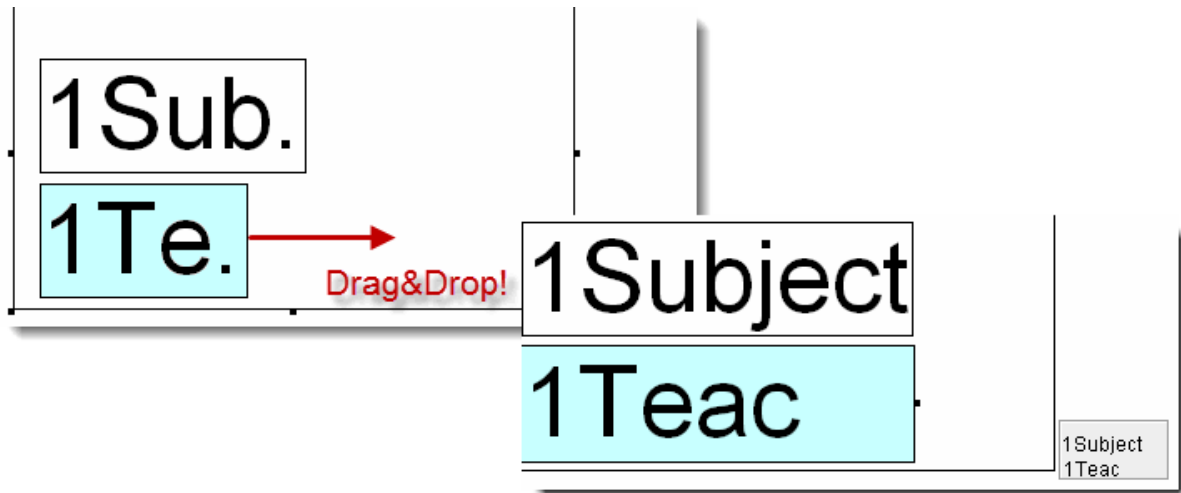
1Te.

1Sub.
1Te.

You can use the <Change field> and <Delete field> buttons to modify or delete an existing field.

1.7.3.4.2 Changing field size and position

The active element is marked turquoise in the period window editor. You can use drag&drop to change the positioning and size of the fields.



You can/should activate an element such as teacher more than once for couplings (maximum number of used couplings):

The screenshot shows the '1a - Class 1a (Gauss) Timetable (Clal)' window. The window title is '1a - Class 1a (Gauss) Timetable (Clal)'. The school year is '19.9.2016 - 30.6.2017'. The timetable grid shows the following subjects and teachers for days Mo, Tu, We, Th:

| UnSc | Mo | Tu | We | Th |
|------|-----------|----------|----------|-----------|
| 2/28 | EN Arist | MA Arist | GEc Hugo | MU Callas |
| 1 | MU Callas | EN | | |
| 2 | BI Cer | AR | | |
| 3 | PEG Arist | RE | | |
| 4 | PEG Rub | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | DS | | |
| 8 | | TX | | |

The list of elements shows the following subjects and teachers for days Mo, Tu, We, Th:

| L-No. | Tea. | Subj. | Rm. | Cl. | Special text |
|-------|--------------|-------|-----|-----|--------------|
| 63 | Cer, BI, R1a | 1a | | | |
| +3 | | | | | |

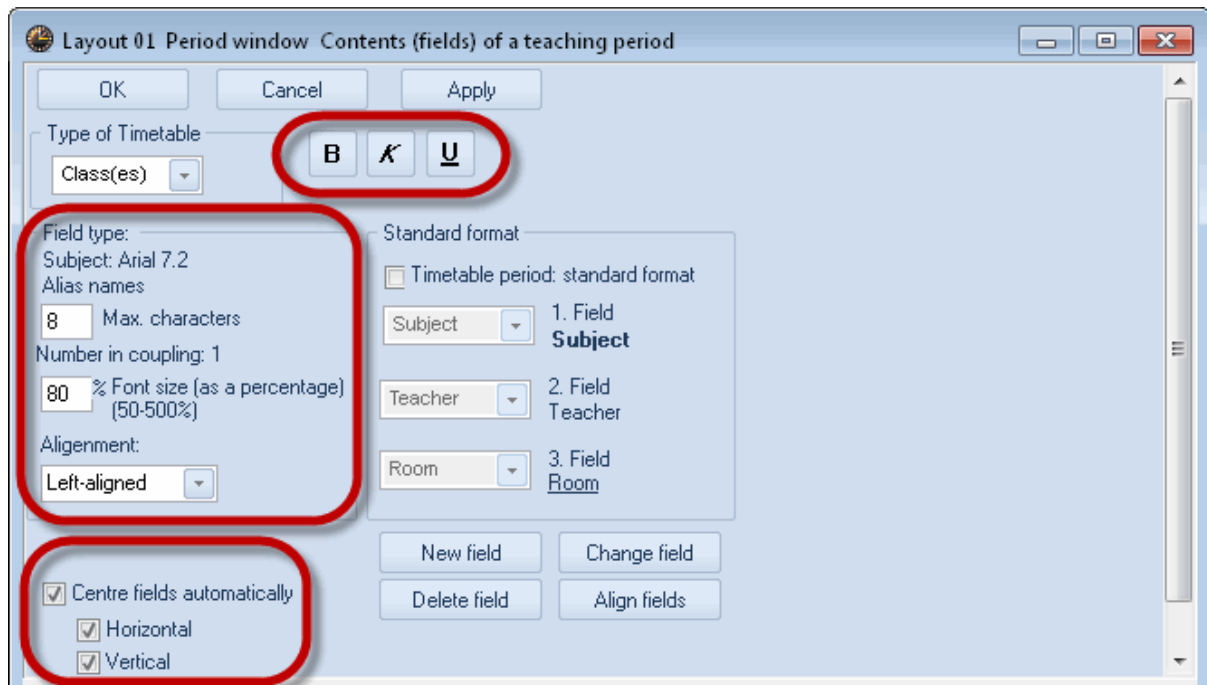
The diagram also shows a visual representation of the drag-and-drop process. A red arrow points from a turquoise '1Te.' field to a new position next to a '1Subject' field. A small box on the right shows the final state with '1Subject' and '1Teac'.

Note: Size of timetable period

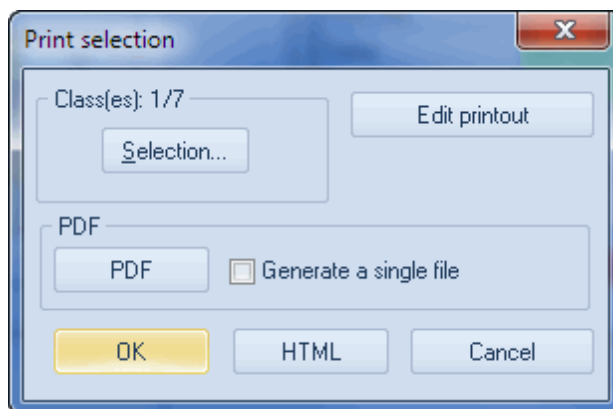
When the background is activated (i.e. turquoise), as in the above figure, you can use drag&drop to change the size of the field of the period window.

1.7.3.4.3 Further settings

You will find a number of additional options with which you can modify the layout of the timetable.

**1.7.4 Printing timetables**

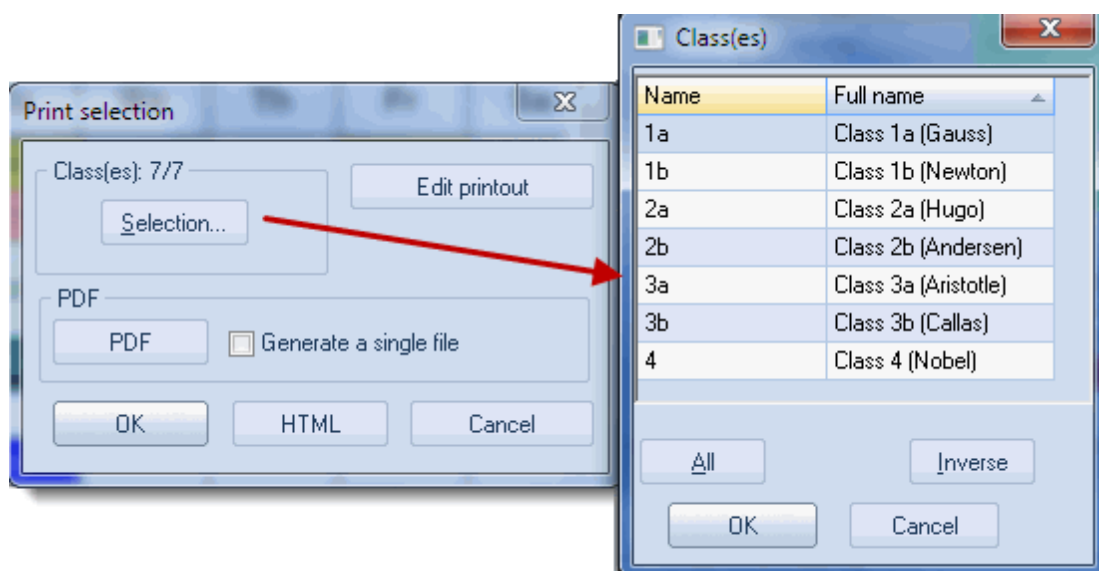
Printing timetables is effected via the <Print> or <Print Preview> buttons. Clicking on either option first displays the print selection window, where you can make additional settings.



The print selection window allows you to make a [selection](#) of the timetables you wish to print. Additionally you can specify the details of the [individual timetables](#) or [overview timetables](#) in the print preview window.

1.7.4.1 Timetable selection

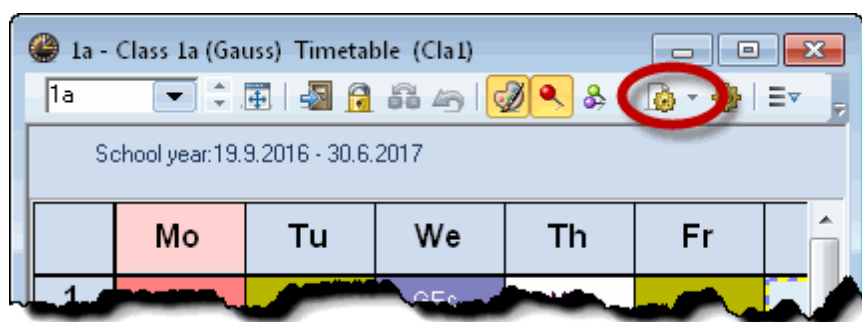
By default, the timetable displayed on screen will be printed. You can use the <Selection> option to specify that several timetables of the same format should be printed simultaneously:



You can select the timetables for the desired elements by holding the left mouse button and moving the cursor or with <Ctrl> + click (see figure).

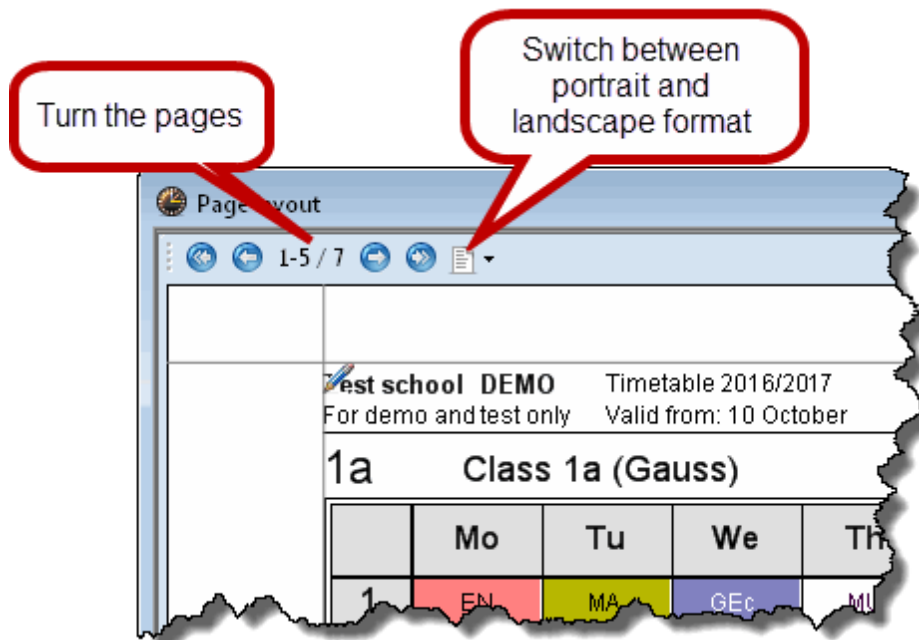
1.7.4.2 Page layout

Via the <Edit printout> button in the print selection or the <Page layout> button in the menu you can specify additional details for the respective printout. Possible settings depend on the format of the timetable.



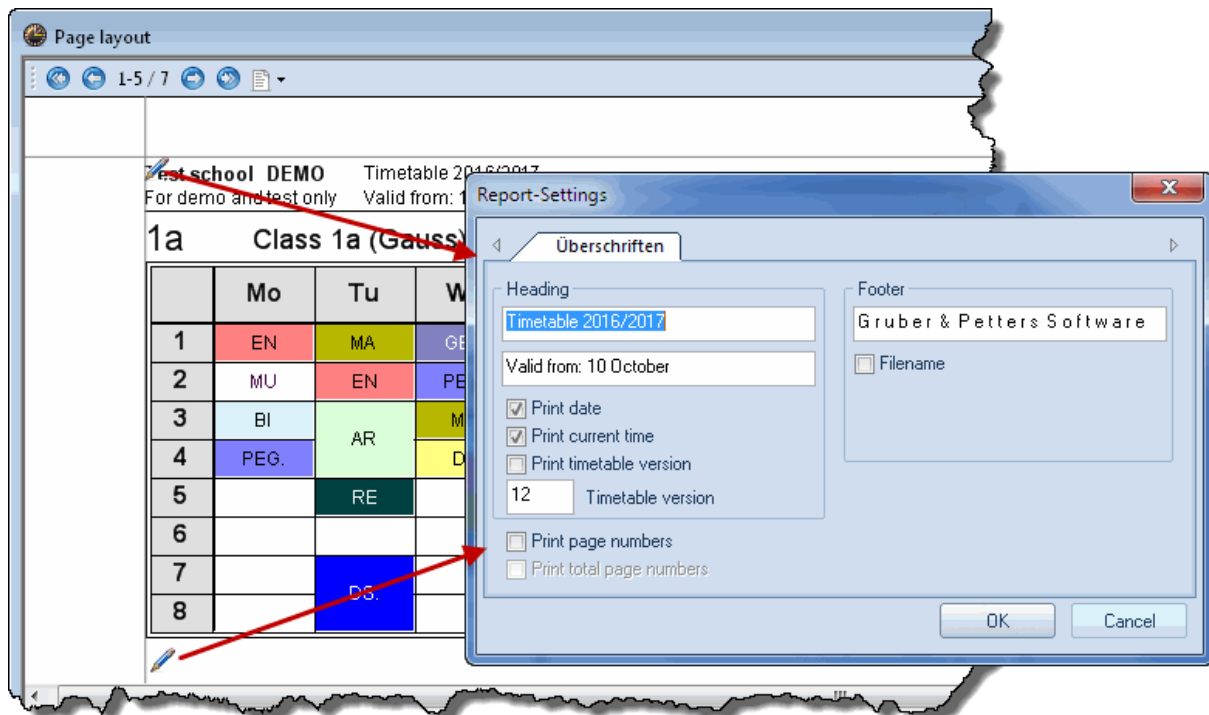
1.7.4.2.1 Menu bar page layout

In the menu bar of the timetable page layout you can change between the pages or change to portrait or landscape.



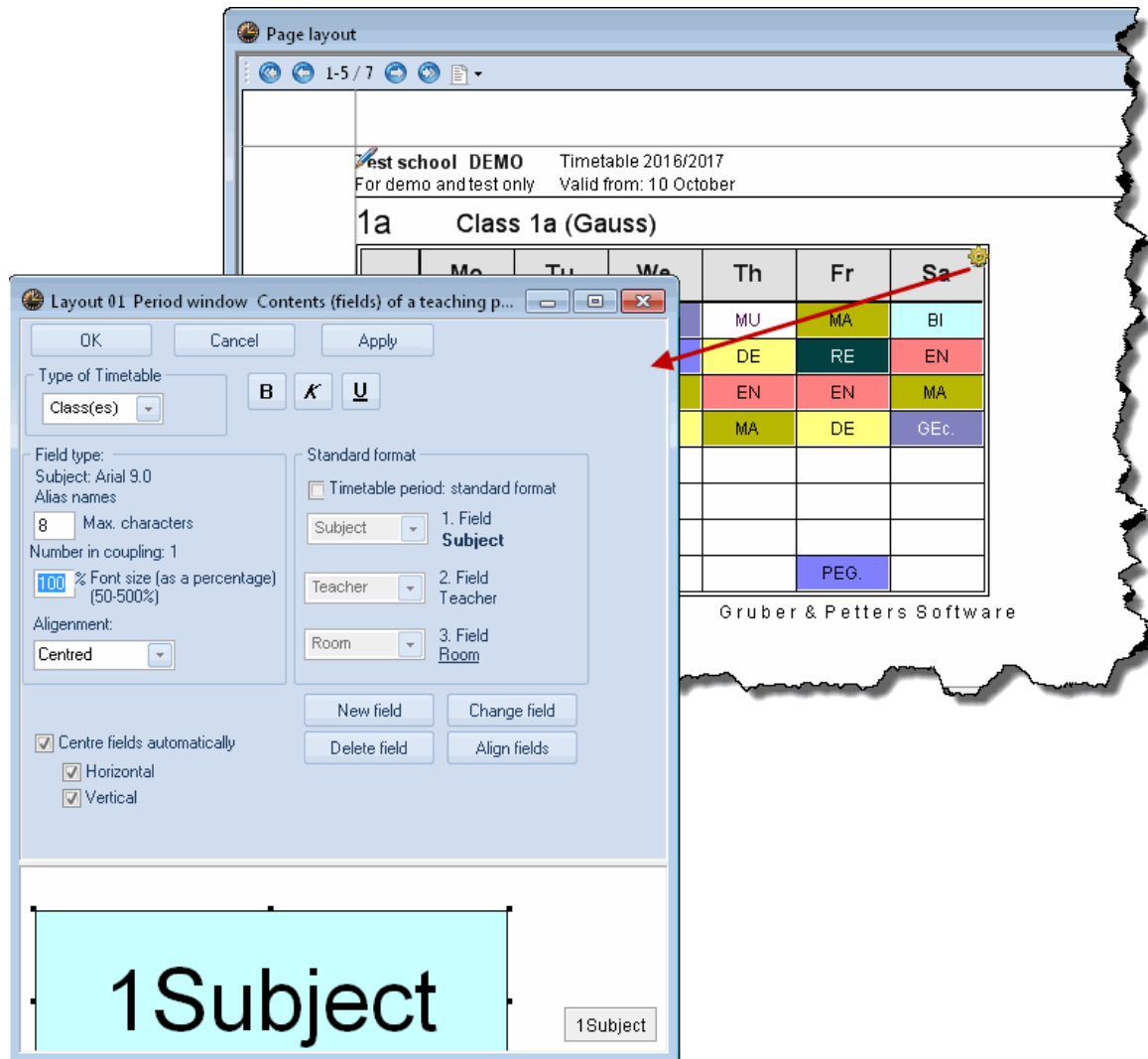
1.7.4.2.2 Header and footer

The possibilities for header and footer design are displayed in the figure below.



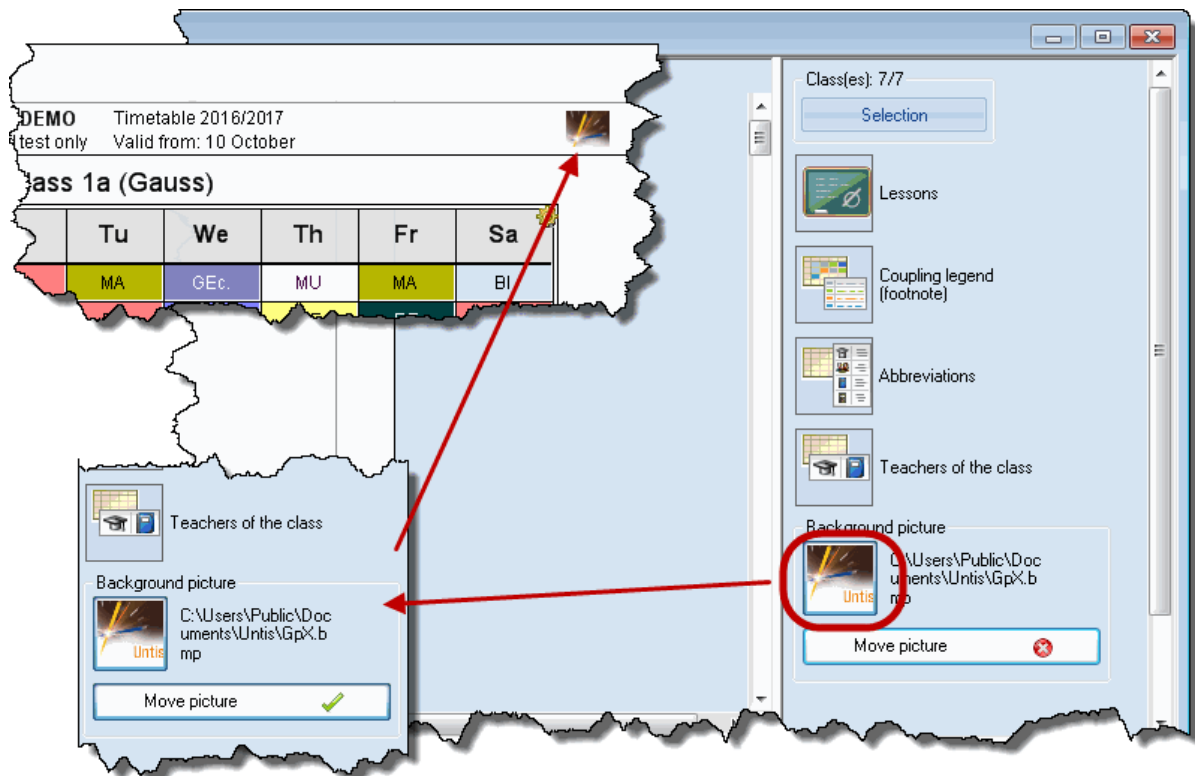
1.7.4.2.3 Period window

Via the gear-wheel next to the timetable you get to the detail settings of the [period window](#) (please refer to the respective chapter in the timetable layout).



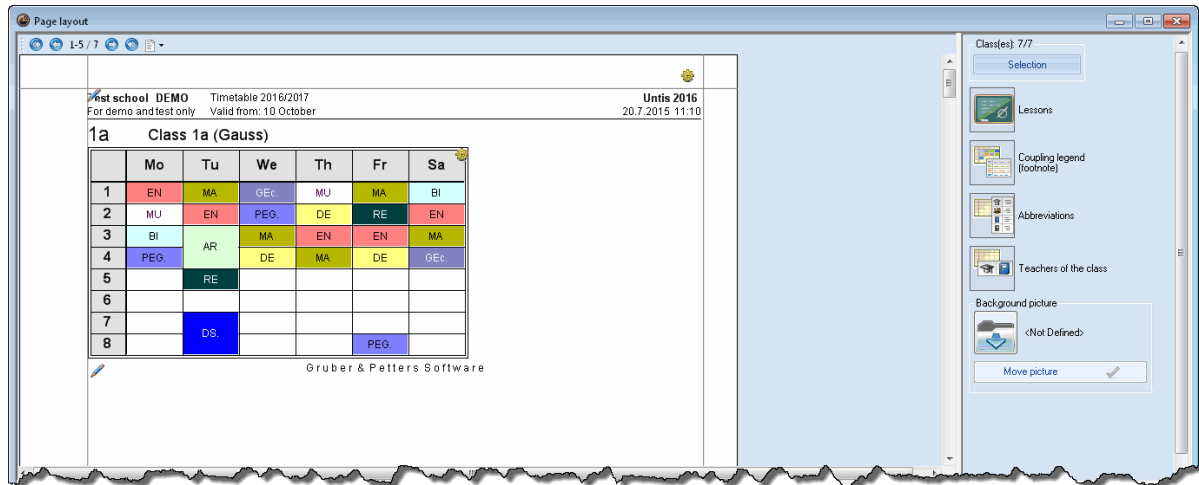
1.7.4.2.4 Insert image

By clicking on the <Background picture> button you can insert a bmp picture. It is displayed instead of the button and can be moved or its size can be adjusted by activating the <Move picture> button.



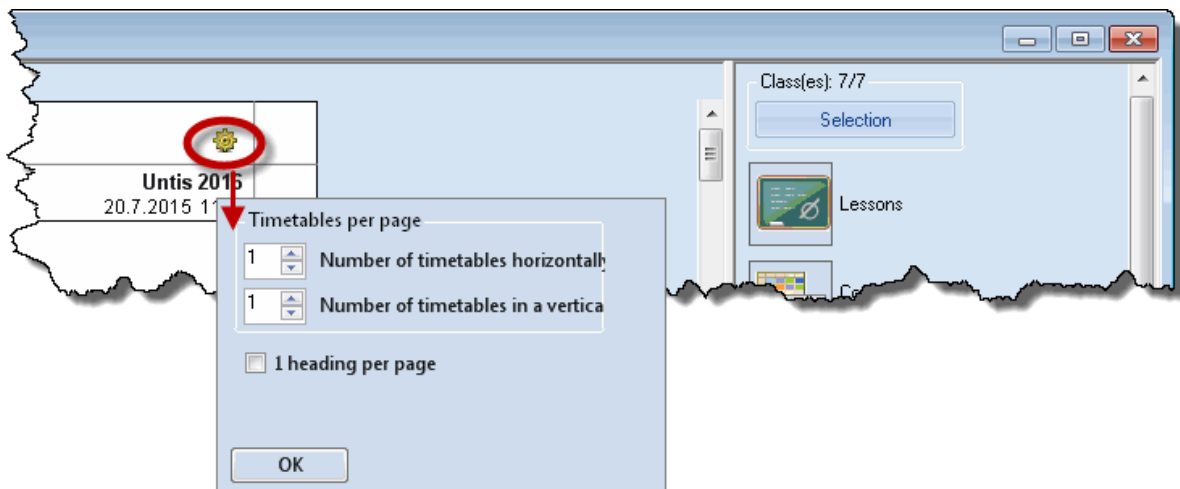
1.7.4.2.5 Individual timetables page layout

The following descriptions apply to individual timetables (and not to overview timetables).



Settings of timetable page

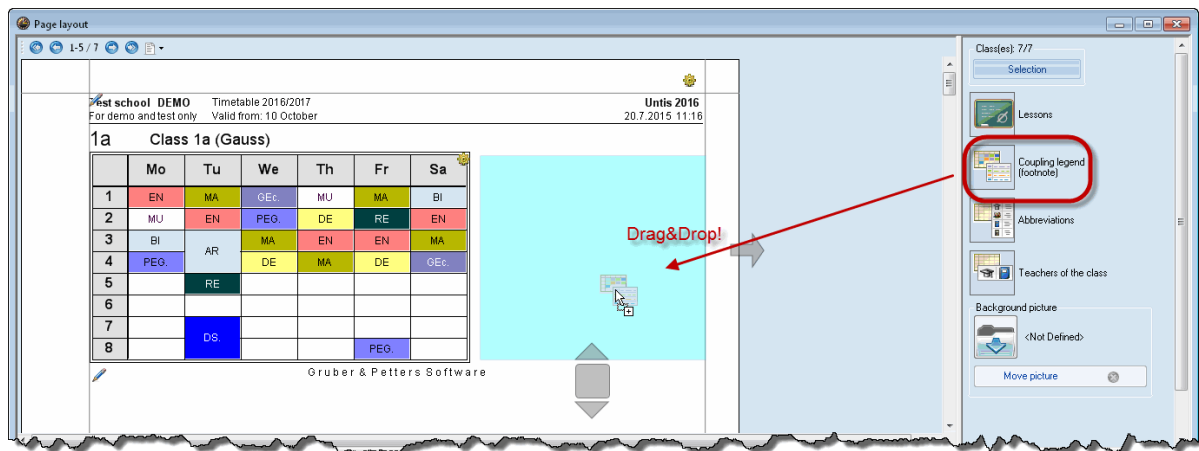
You can choose, for instance, how many timetables should be printed on a page plus how many or which weeks.



Coupling legend

A legend is always printed if all the lesson information cannot be displayed in the period window. Lesson information (for classes) includes all rooms, subjects and teachers.

Drag&drop allows you to select the position of the legend on the page or whether the legend should be printed on a separate page.



Via the settings button of the legend you can also define how many columns the legend should have and whether the legend should be printed in a frame. The legend can be deleted via the big red X.

Page layout

1-5 / 7

Test school DEMO Timetable 2016/2017
For demo and test only Valid from: 10 October

Untis 2016
20.7.2015 11:19

1a Class 1a (Gauss)

| | Mo | Tu | We | Th | Fr | Sa |
|---|------|-----|------|----|------|------|
| 1 | EN | MA | GEc. | MU | MA | BI |
| 2 | MU | EN | PEG. | DE | RE | EN |
| 3 | BI | AR | MA | EN | EN | MA |
| 4 | PEG. | | DE | MA | DE | GEc. |
| 5 | | RE | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | DS. | | | PEG. | |

Gruber & Petters Software

No. Tea, Sub, Rm. Cla. Text

- 1) Arist, EN, R1a 1a
- 2) Callas, MU, R1a 1a
- 3) Cer, BI, R1a 1a
- 4) Arist, PEG, SH2 Rub, PEB, SH1
- 5) Arist, MA, R1a
- 6) Callas, AR, R1a
- 7) Nobel, RE, R1a
- 8) Ander, DS, WS
- Gauss, DS, WS 1b
- Curie, TX, TW 1a, 1b
- 9) Hugo, GEc, R1a 1a, 1b, 2a, 2b
- 10) Rub. DE. R1a 1a

Remove the legends

☐ Print frames

1 Number of columns

OK

Lessons

With timetables for classes and teachers, you can choose to print the lessons view as well.

Page layout

1-5 / 7

Test school DEMO Timetable 2016/2017
For demo and test only Valid from: 10 October

Untis 2016
20.7.2015 11:39

1a Class 1a (Gauss)

| | Mo | Tu | We | Th | Fr | Sa |
|---|------|-----|------|----|------|------|
| 1 | EN | MA | GEc. | MU | MA | BI |
| 2 | MU | EN | PEG. | DE | RE | EN |
| 3 | BI | AR | MA | EN | EN | MA |
| 4 | PEG. | | DE | MA | DE | GEc. |
| 5 | | RE | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | DS. | | | PEG. | |

Gruber & Petters Software

| L-No. | Cl,Te. | UnSched | Prds | Per | Teacher |
|-------|--------|---------|------|-----|-------------------------|
| 11 | 4,1 | | | 2 | Hugo |
| 7 | 2,3 | | | 2 | Ander Gauss Curie |
| 73 | 2,2 | | | 3 | Arist Rub |
| 31 | | | | 5 | Arist |
| 33 | | | | 5 | Arist |
| 35 | | | | 2 | Callas |
| 39 | | | | 2 | Callas |
| 46 | | | | 2 | Nobel |

Abbreviations

A legend can be printed with the abbreviations of the subjects and/or teachers. In the following example, the name and full names of the subjects are listed next to the timetable.

Page layout

1-5 / 7

Test school DEMO Timetable 2016/2017
For demo and test only Valid from: 10 October

Untis 2016
20.7.2015 11:40

1a Class 1a (Gauss)

| | Mo | Tu | We | Th | Fr | Sa |
|---|------|-----|------|----|------|------|
| 1 | EN | MA | GEc. | MU | MA | BI |
| 2 | MU | EN | PEG. | DE | RE | EN |
| 3 | BI | AR | MA | EN | EN | MA |
| 4 | PEG. | | DE | MA | DE | GEc. |
| 5 | | RE | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | DS. | | | PEG. | |

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Name Full name
 Ander Andersen
 Arist Aristotle
 Callas Callas
 Cer Cervantes
 Curie Curie
 Gauss Gauss
 Hugo Hugo
 Nobel Nobel
 Rub Rubens

Teacher of the class

The teachers of the class can also be printed.

Page layout

1-5 / 7

Test school DEMO Timetable 2016/2017
For demo and test only Valid from: 10 October

Untis 2016
20.7.2015 11:41

1a Class 1a (Gauss)

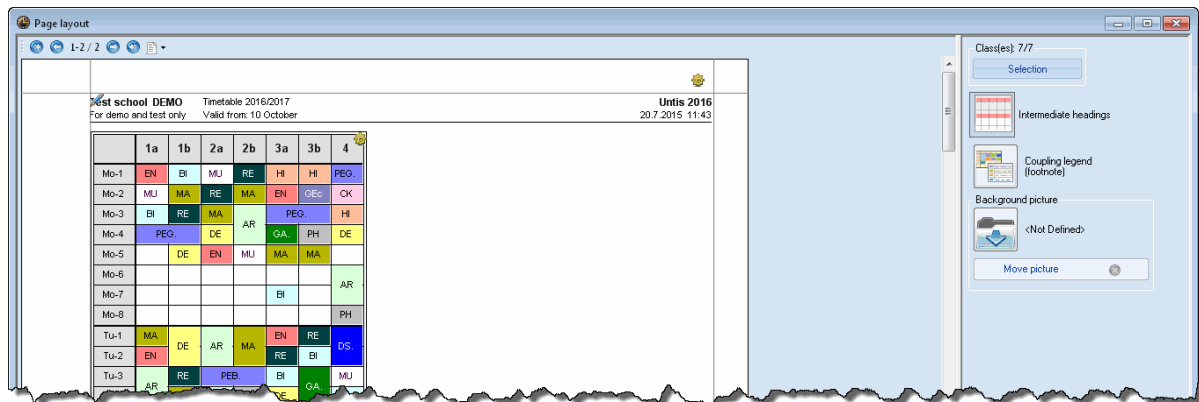
| | Mo | Tu | We | Th | Fr | Sa |
|---|------|-----|------|----|------|------|
| 1 | EN | MA | GEc. | MU | MA | BI |
| 2 | MU | EN | PEG. | DE | RE | EN |
| 3 | BI | AR | MA | EN | EN | MA |
| 4 | PEG. | | DE | MA | DE | GEc. |
| 5 | | RE | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | DS. | | | PEG. | |

Gruber & Petters Software

Teacher Su...
 Hugo GEc
 Ander DS
 Arist PEG
 Callas MU
 EN AR
 Nobel RE
 Rub PEB
 DE
 Cer BI
 Curie TX

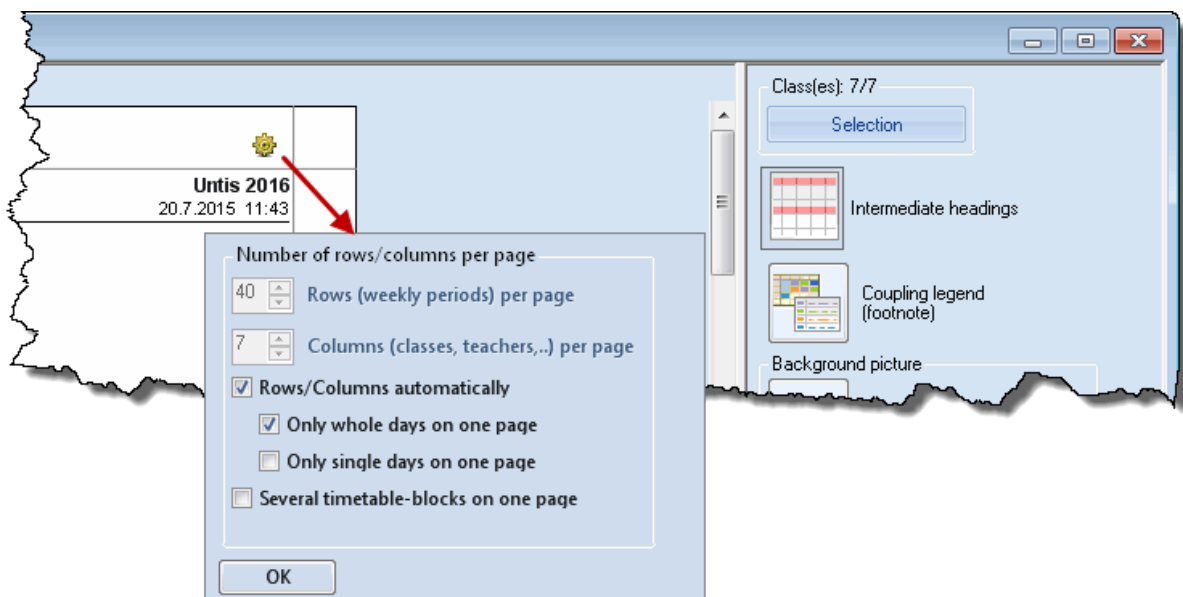
1.7.4.2.6 Overview timetable details

The following details can be set when printing overview timetables:



Number of rows/columns per page

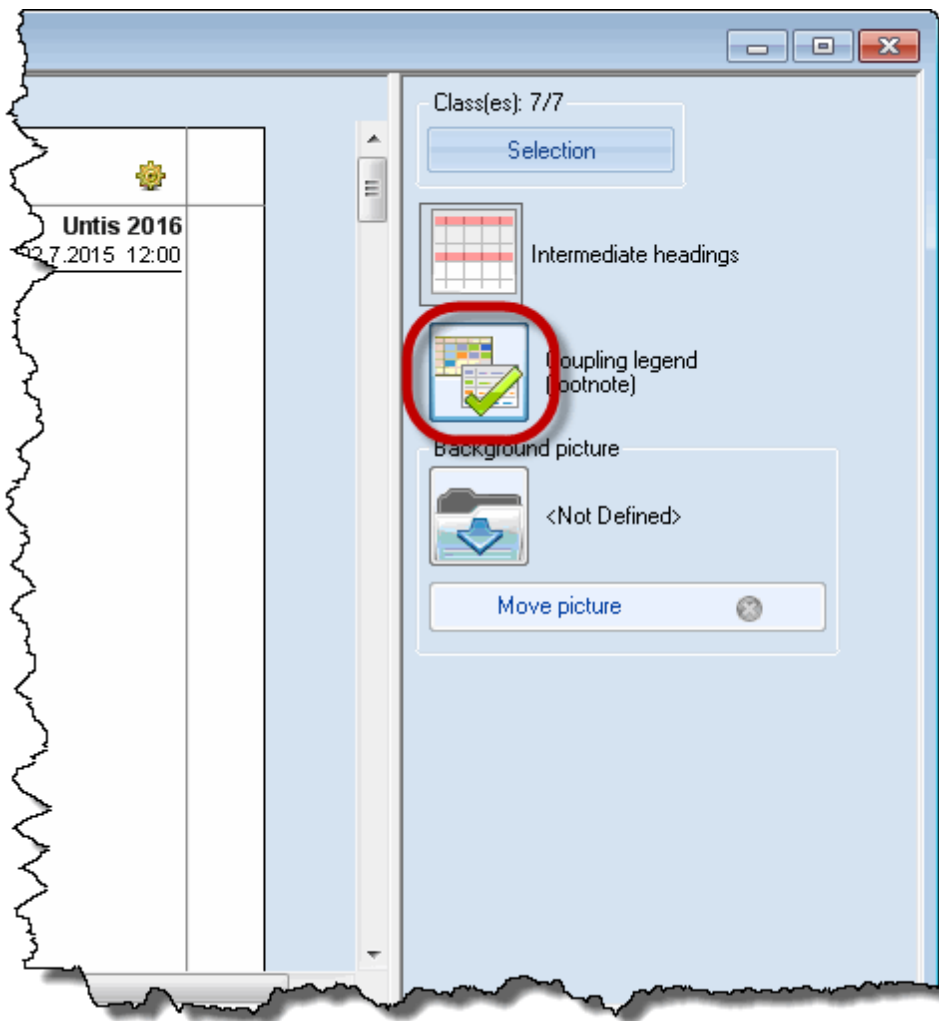
The check box "Rows/Columns automatically" allows you to specify that Untis should print exactly as many rows and columns as will fit on the page.



If the box is not checked, you can specify how many rows and columns should be printed on a sheet using the relevant input fields.

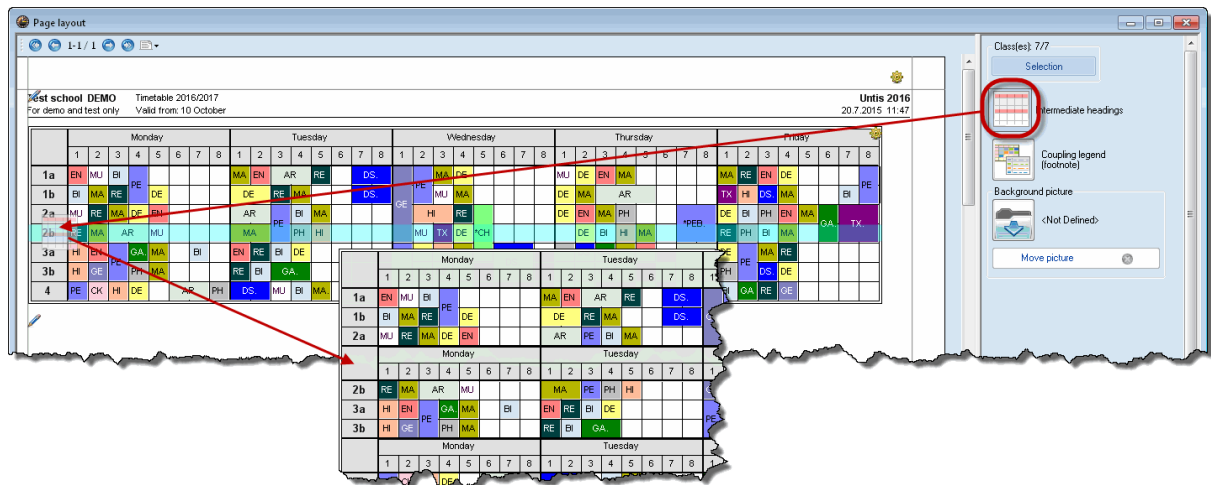
Coupling legend

As with the individual timetables, you can also specify that a legend should be printed with the information that does not fit in the period window. The legend is activated in the overview timetables and is always printed on a separate page.



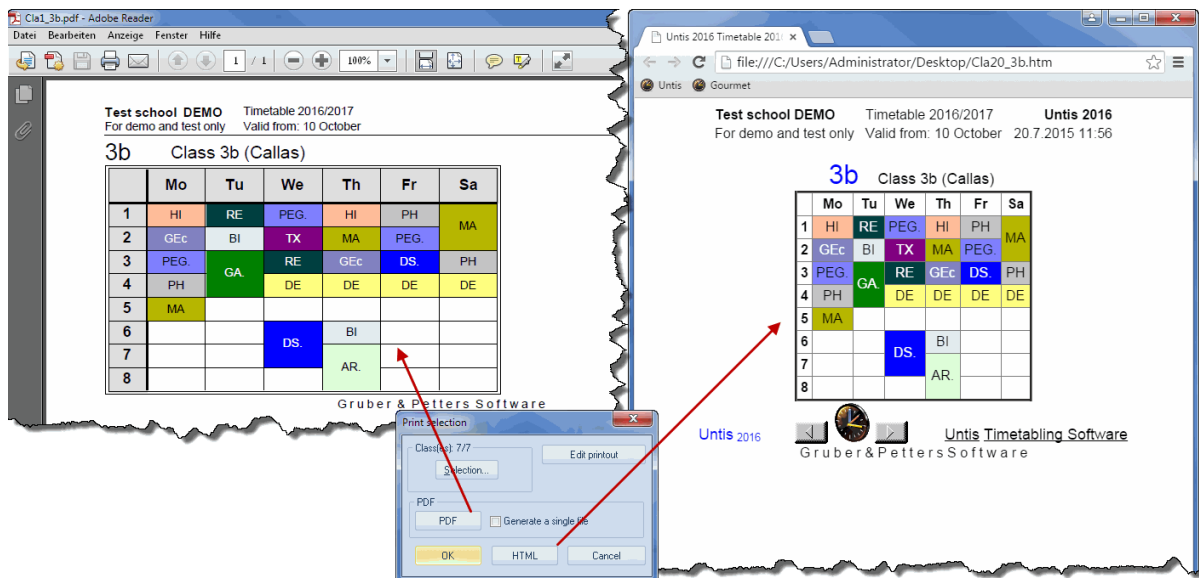
Intermediate heading

If you have big overviews it can help to display intermediate headings. Drag the button to the desired position (e.g. after the third class row) - after every x entries (here after every third entry) an intermediate heading will be displayed.



1.7.4.3 Timetables in HTML format

Untis provides the option of generating timetables in HTML format at the press of a button which are then directly available for a school's own intranet or for the Internet.



1.8 Lists

Untis Express provides a number of predefined lists that can assist you in your scheduling work or that can serve as overview lists for e.g. teachers' meetings.

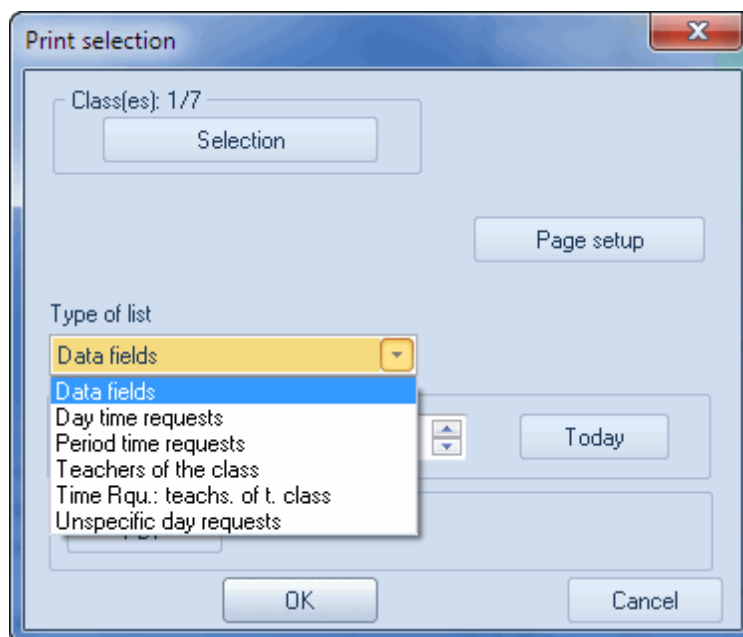
- [Class lists](#)
- [Teacher lists](#)
- [Room lists](#)
- [Subject lists](#)

These lists can be accessed via [print selection](#) in the [master data views](#).

1.8.1 Class lists

Lists for classes are accessed via master data of the classes and print selection.

- [Teachers of the class](#)
- [Period time requests](#)
- [Day time requests](#)
- [Unspecified day requests](#)
- [Time request: teachers of the class](#)



1.8.1.1 Teachers of the class

This list shows all teachers who teach in the individual classes and is often used for teachers' meetings.

| Test school DEMO | | Timetable 2016/2017 | Untis 2016 |
|--|---------|------------------------|-------------------|
| For demo and test only | | Valid from: 10 October | 20.7.2015 12:04 |
| List for meetings of class-teachers | | | |
| Class | Teacher | Subjects | |
| 1a | Hugo | GEc | |
| | Ander | DS | |
| | Arist | PEG MA EN | |
| | Callas | MU AR | |
| | Nobel | RE | |
| | Rub | PEB DE | |
| | Cer | BI | |
| | Curis | TX | |

1.8.1.2 Period time requests

This list shows the [time requests](#) entered in the [master data](#) for the classes.

Period time requests

| Name | Mo | Tu | We | Th | Fr | Sa |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|
| | 1 2 3 4 5 6 7 8 | 1 2 3 4 5 6 7 8 | 1 2 3 4 5 6 7 8 | 1 2 3 4 5 6 7 8 | 1 2 3 4 5 6 7 8 | 1 2 3 4 5 |
| 1a | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 |
| 1b | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 |
| 2a | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 |
| 2b | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 |
| 3a | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 |
| 3b | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 |
| 4 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 | ++++ 3333 |

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1.8.1.3 Day time requests

Specified time requests that apply to whole days or half days are listed here.

Day time requests

| Name | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|------|-----------|-----------|-----------|-----------|-----------|-----------|
| | a.m. p.m. | a.m. p.m. | a.m. p.m. | a.m. p.m. | a.m. p.m. | a.m. p.m. |
| 1a | +3 | +3 | | | | |
| 1b | | +3 | | | | |
| 2a | +3 | +3 | | | | |
| 2b | | | | | | |
| 3a | +3 | +3 | | | | |
| 3b | | | | | | |
| 4 | | | | | | |

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1.8.1.4 Unspecified day requests

This list shows unspecified additional time requests that apply to whole days or half days.

Unspecific day requests

| Name | a.m. -3 -2 -1 | p.m. -3 -2 -1 | halves -3 -2 -1 | Days -3 -2 -1 |
|------|------------------|------------------|--------------------|------------------|
| 1a | | | 2 | |
| 1b | | | 2 | |
| 2a | | 1 | | |
| 2b | | 1 | | |
| 3a | | | | |
| 3b | | | | |
| 4 | | | | |

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1.8.1.5 Time request: Teachers of the class

All specified negative time requests for class teachers are listed.

Time requests teach/class

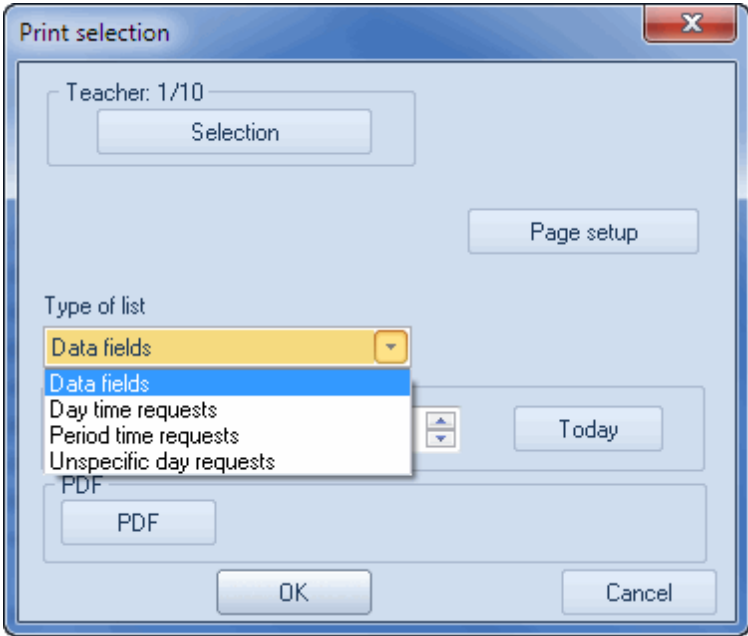
1a Class 1a (Gauss)

| Name | Mo 12345678 | Tu 12345678 | We 12345678 | Th 12345678 | Fr 12345678 | Sa 12345 |
|--------|----------------|----------------|----------------|----------------|----------------|-------------|
| Hugo | | xx | xxxxxx | | | |
| Ander | xxxxxx | xxx | | | | |
| Arist | xx | xx | xx | xx | xx | x |
| Callas | | | | | xxxxxx | xxxxx |
| Nobel | | | | xxx | | xxxxx |
| Rub | | | | | | |
| Cer | | | xxxxxx | | | |
| Curie | | | | | | xxxxxx |

1.8.2 Teacher lists

Lists for teachers are accessed via master data of the teachers and print selection.

- [Period time requests](#)
- [Day time requests](#)
- [Unspecified day requests](#)



1.8.2.1 Period time requests

This list shows the [time requests](#) entered in the [master data](#) for the teachers.

Period time requests

[illegible]

1.8.2.2 Day time requests

Specified time requests that apply to whole days or half days are listed here.

Day time requests

[illegible]

1.8.2.3 Unspecified additional day requests

This list shows [unspecified additional time requests](#) that apply to whole days or half days.

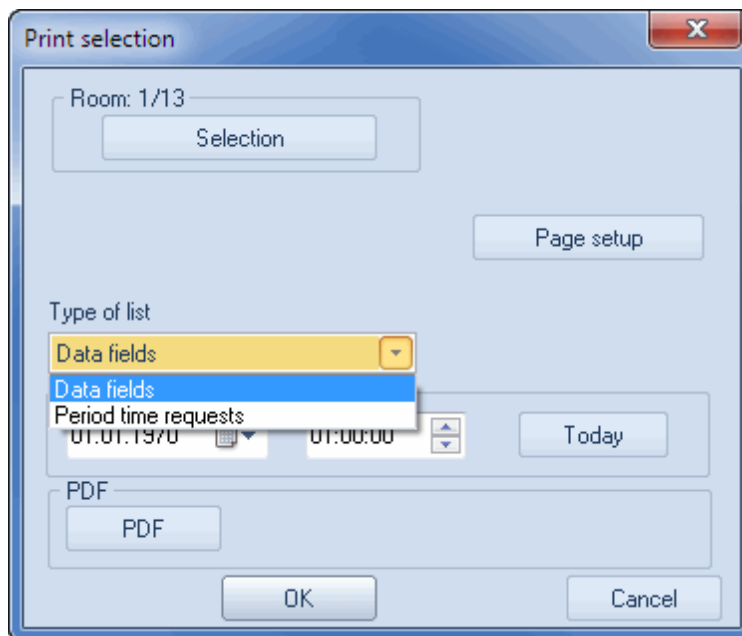
Unspecific day requests

| Name | a.m. | p.m. | halves | Days |
|-------|----------|----------|----------|----------|
| | -3 -2 -1 | -3 -2 -1 | -3 -2 -1 | -3 -2 -1 |
| Gauss | | 3 | | |
| New | | | | |
| Hugo | | 1 3 | | |
| Ander | | | | |
| Arist | | 3 | | |

1.8.3 Room lists

Lists for classes are accessed via master data of the rooms and print selection.

- [Period time requests](#)



1.8.3.1 Period time requests

This list shows the time requests entered in the master data for rooms.

Period time requests

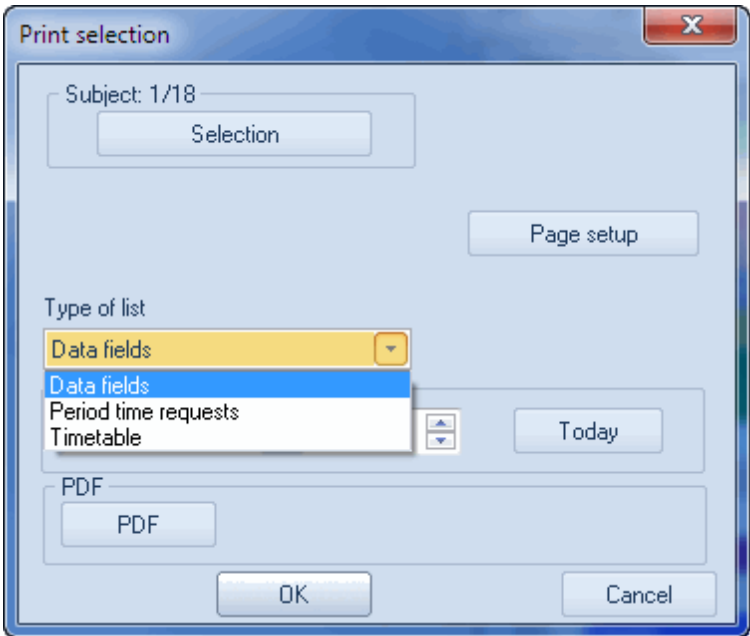
| Name | Mo | | | | | | | | Tu | | | | | | | | We | | | | | | | | Th | | | | | | | | Fr | | | | | | | | Sa | | | | | | | | | | | | |
|------|----|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | |
| SH1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SH2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HE1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R1a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R1b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R2a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R2b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R3a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ps1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Ps2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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1.8.4 Subject lists

Lists for classes are accessed via "Master Data | Subjects" and print selection.

- [Timetable](#)
- [Period time requests](#)



1.8.4.1 Timetable

A timetable is generated for each subject.

German (DE)

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----|--------------|----------------------|--------------------------------|------------------------|--------------|---|---|---|
| Mo | | | | Cer Hugo | Rub | | | |
| Tu | Rub | Rub | | Ander | | | | |
| We | | Ander | | Rub Callas Ander | Nobel ?-1 | | | |
| Th | Rub Cer | Rub Callas | | Ander | Hugo | | | |
| Fr | Cer Ander | | | Rub Ander | | | | |
| Sa | | Rub Cer Callas | Rub Callas Ander Hugo | Ander | | | | |

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1.8.4.2 Period time requests

This list shows the time requests entered in the master data for subjects.

Period time requests

| | Mo | | | | | | | Tu | | | | | | | We | | | | | | | Th | | | | | | | Fr | | | | | | | Sa | | | | |
|------|----|---|---|---|---|---|---|----|---|---|---|---|---|---|----|---|---|---|---|---|---|----|---|---|---|---|---|---|----|---|---|---|---|---|---|----|---|--|--|--|
| Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 5 | | | |
| RE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AR | - | - | - | - | - | | | | - | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | | | |
| | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | | | |
| DS | - | - | - | - | - | | | | - | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | | | |
| | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | | | |
| HE | - | - | - | - | - | | | | - | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | | | |
| | 2 | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | | | | | | |
| CK | - | - | - | - | - | | | | - | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | | | |
| | 2 | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | | | | | | |
| PEB | - | - | - | - | - | | | | - | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | | | |
| | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | | | |
| PEG | - | - | - | - | - | | | | - | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | - | - | - | - | | | | | | |
| | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | | | |

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2 Cover Planning Express

The timetable provides the basis for all processes in school. It requires a lot of efforts to set up and it is nice when it is finally finished. However, it is seldom executed as intended. Work must be performed on it every day. When a teacher is ill, a colleague takes part in professional development or a class visits a museum, changes must be made to the timetable. Cover must be found for the colleague who is ill, except for the class on the trip to the museum. The lesson of the colleague on skills enhancement will not take place if it is the last morning period.

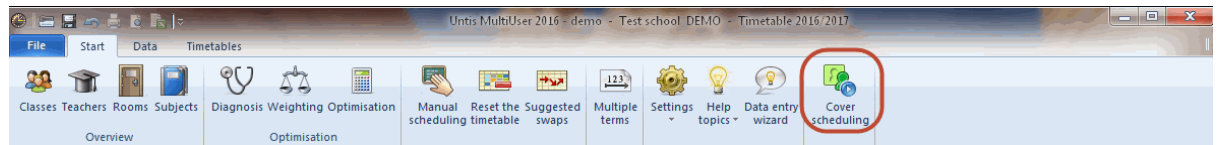
The timetable also provides the main basis for finding cover staff. It can find out who is in the school and is available. It knows who also teaches the class. It can also provide information on who can teach the subject in the period in question.

It is a complex and fascinating topic. The Untis Express Cover Planning module is the result of many

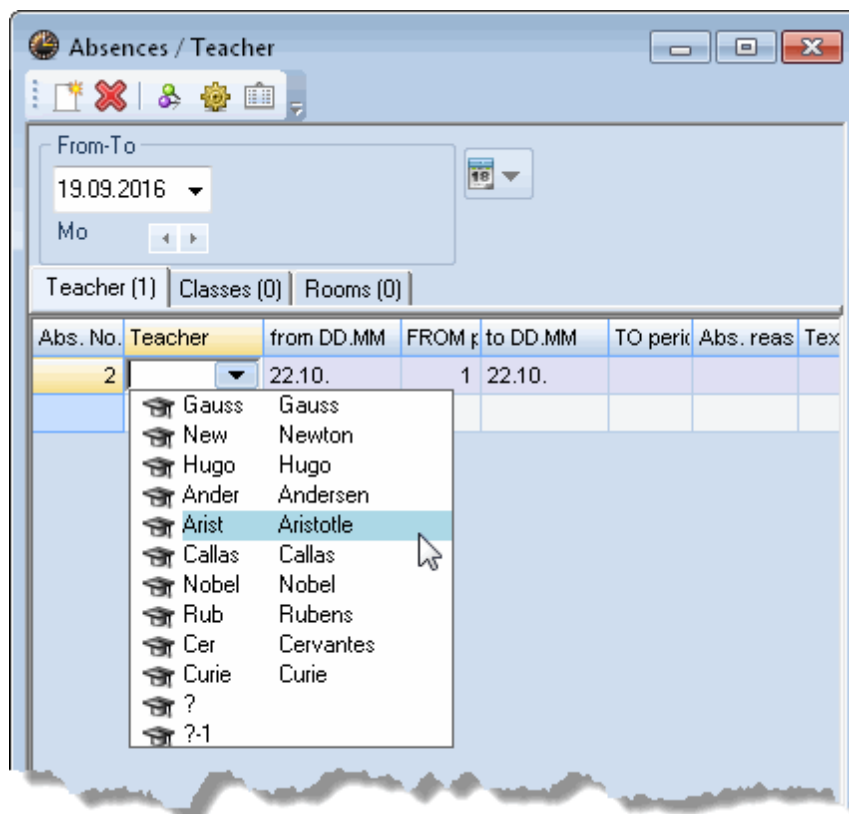
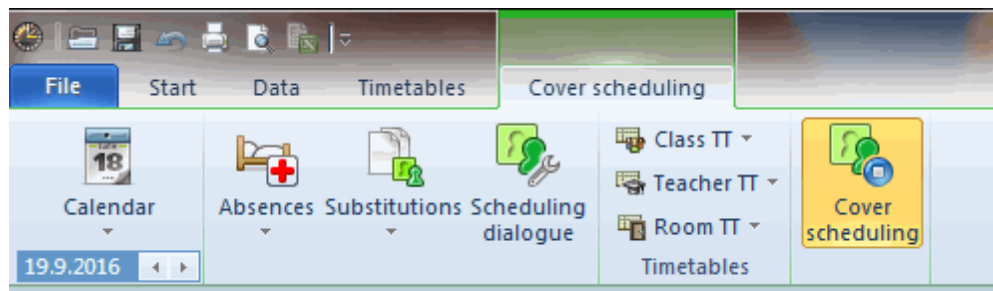
years of experience in the field.

2.1 Example

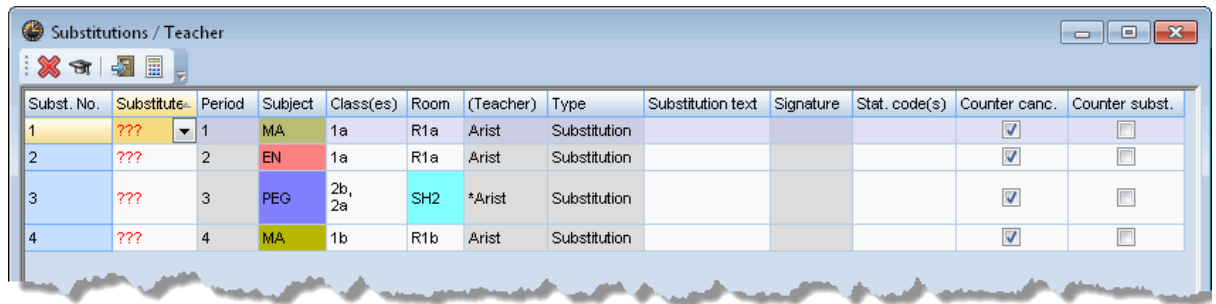
1. Open the file DemoL.gpn, go to the tab 'Start' and click on the 'Cover scheduling' button.



2. Click on the now displayed 'Cover scheduling' tab the 'Absences' button and select a day in the school year from the [calendar](#) in the [Absences window](#). Selecting the teacher short name (Arist) marks the teacher Aristoteles absent for the day.

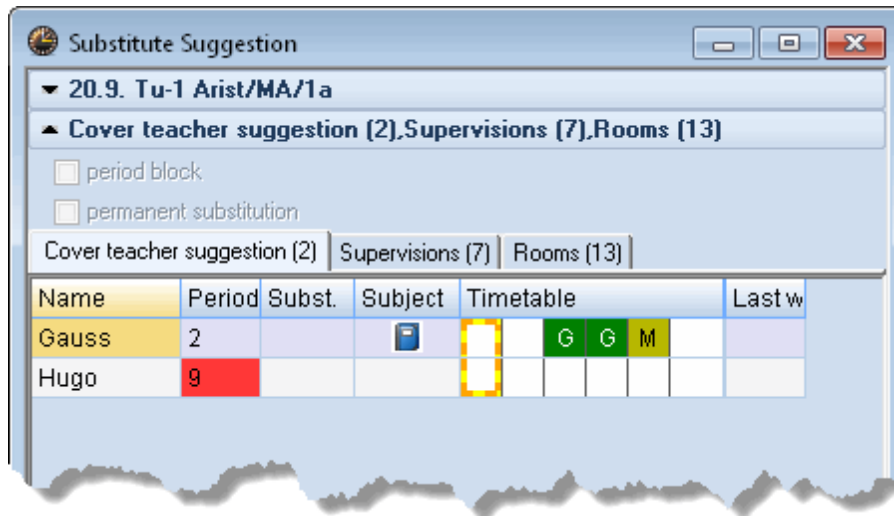


3. Now switch to the [Substitutions window](#) by clicking on the <Substitutions> button. This will show the open substitutions for the day.



| Subst. No. | Substitute | Period | Subject | Class(es) | Room | (Teacher) | Type | Substitution text | Signature | Stat. code(s) | Counter canc. | Counter subst. |
|------------|------------|--------|---------|-----------|------|-----------|--------------|-------------------|-----------|---------------|-------------------------------------|--------------------------|
| 1 | ??? | 1 | MA | 1a | R1a | Arist | Substitution | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 | ??? | 2 | EN | 1a | R1a | Arist | Substitution | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3 | ??? | 3 | PEG | 2b, 2a | SH2 | *Arist | Substitution | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4 | ??? | 4 | MA | 1b | R1b | Arist | Substitution | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Now a suitable substitution must be found for the 1st period. Click on the first row in the view and then on the < [Suggestion](#) > button (black mortarboard). The suggestion lists the teachers available for this period, and you can select a suitable teacher with double click.



| Substitute Suggestion | | | | | | | |
|--|--------|------------------|---------|------------|--------|--|--|
| ▼ 20.9. Tu-1 Arist/MA/1a | | | | | | | |
| ▲ Cover teacher suggestion (2).Supervisions (7).Rooms (13) | | | | | | | |
| <input type="checkbox"/> period block <input type="checkbox"/> permanent substitution | | | | | | | |
| Cover teacher suggestion (2) | | Supervisions (7) | | Rooms (13) | | | |
| Name | Period | Subst. | Subject | Timetable | Last w | | |
| Gauss | 2 | | | G G M | | | |
| Hugo | 9 | | | | | | |

Instead of the three red ??? the selected teacher appears in the column 'Substitute', a substitution for the first period is found and the process is finished.

The name of the selected teacher will be displayed in the "Substitute" column, and cover planning for the first period is finished.

4. Once you have processed all substitutions you can select <Print> or <Print Preview> to print the substitutions list, either for teachers or for classes.

New Newton

| Subst. No. | Substitute | Period | Subject | Class(es) | Room | (Teacher) | Type | Substitution text | Signature |
|------------|------------|--------|---------|-----------|------|-----------|--------|-------------------|-----------|
| 3 | New | 3 | PEG | 2b, 2a | SH2 | Arist | Subst. | | |

Hugo Hugo

| Subst. No. | Substitute | Period | Subject | Class(es) | Room | (Teacher) | Type | Substitution text | Signature |
|------------|------------|--------|---------|-----------|------|-----------|--------|-------------------|-----------|
| 1 | Hugo | 1 | MA | 1a | R1a | Arist | Subst. | | |
| 2 | Hugo | 2 | EN | 1a | R1a | Arist | Subst. | | |
| 4 | Hugo | 4 | MA | 1b | R1b | Arist | Subst. | | |

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1a Class 1a (Gauss)

| Subst. No. | Class(es) | Period | Subject | Substitute | Room | (Teacher) | Type | Substitution text | Signature |
|------------|-----------|--------|---------|------------|------|-----------|--------|-------------------|-----------|
| 1 | 1a | 1 | MA | Hugo | R1a | Arist | Subst. | | |
| 2 | 1a | 2 | EN | Hugo | R1a | Arist | Subst. | | |

1b Class 1b (Newton)

| Subst. No. | Class(es) | Period | Subject | Substitute | Room | (Teacher) | Type | Substitution text | Signature |
|------------|-----------|--------|---------|------------|------|-----------|--------|-------------------|-----------|
| 4 | 1b | 4 | MA | Hugo | R1b | Arist | Subst. | | |

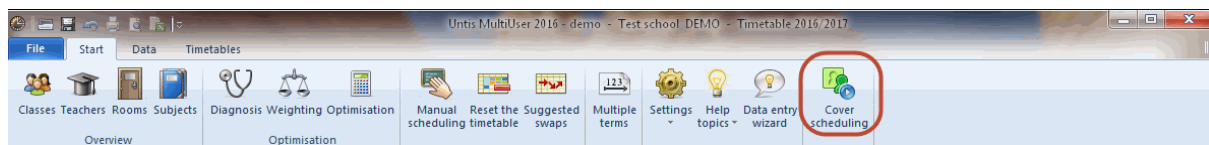
Gruber & Petters Software

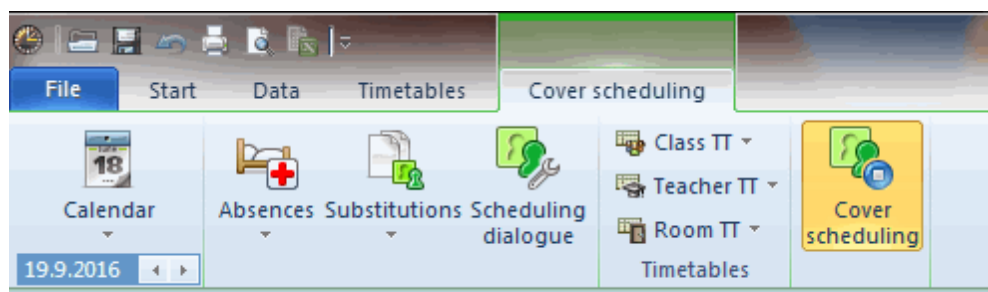
2.2 Settings

Before you can work with cover planning you must first switch to the [cover planning mode](#). In the [substitution time grid](#) you can specify the time range in which periods shall be covered. You can also define [reasons of absence](#) that can then be assigned to the absence in question.

2.2.1 Activating cover scheduling mode

You can activate Untis Express cover scheduling via the <Cover scheduling> button on the 'Start' tab. The <Cover scheduling> tab which is only visible when you are in the cover scheduling mode will be displayed to indicate that you are now in cover scheduling mode.



**Note:**

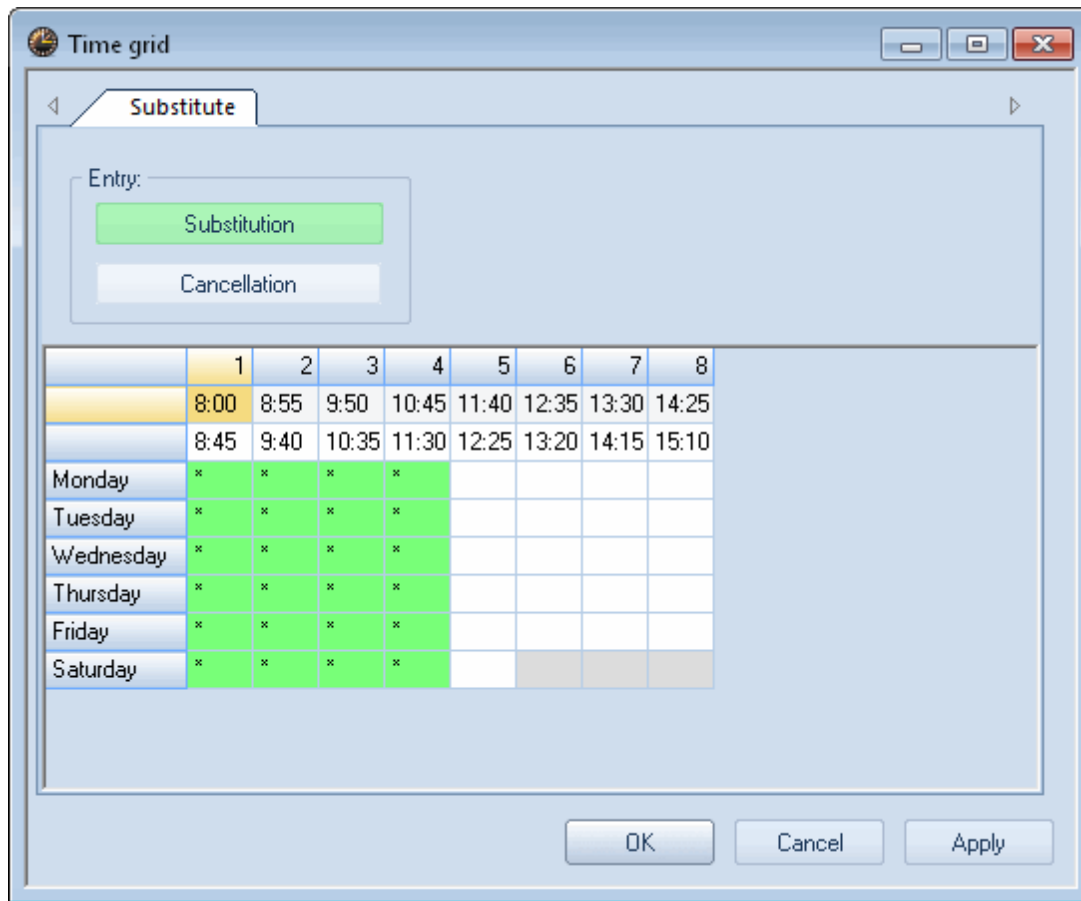
Cover scheduling functions like an independent application within Untis. The screen settings in the Untis mode and the cover scheduling mode are different. When you exit the cover scheduling mode, the original Untis window settings will be restored and vice versa.

You can exit the cover scheduling mode by clicking on the <Cover scheduling> button once more.

2.2.2 Time grid

First you should specify in the time grid (button on the 'Data' tab) the period or time when substitutions are required. In some schools it is normal not to provide cover for the last period in the morning and the afternoon and to cancel the lesson instead.

Here you can activate those periods in which cover is generally provided at your school.

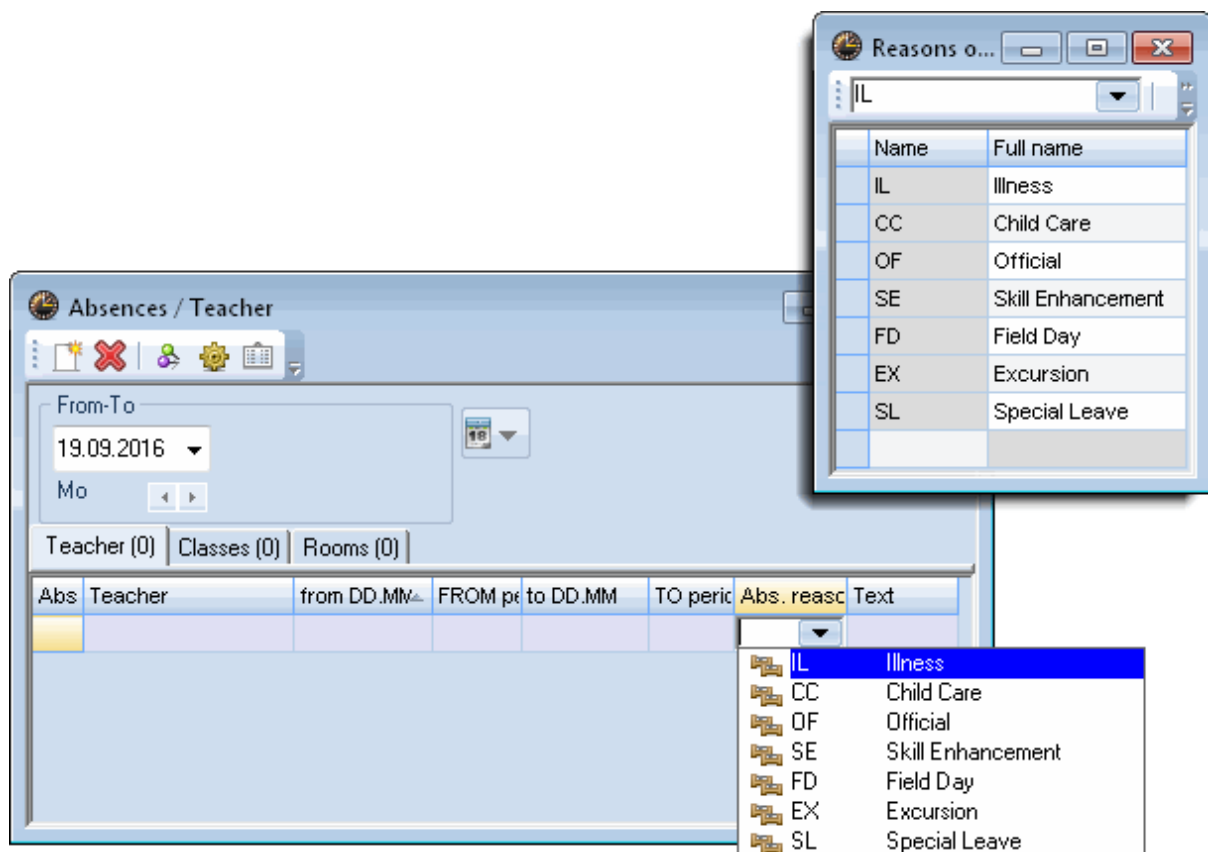


Move the cursor over the desired period of time (e.g. Mo-1 to Fr-5) holding the left mouse button and then click on the <substitution> button.

2.2.3 Absence reasons

On the tab 'Cover scheduling' you can define reasons of absence with short name and full name. Either you click on the little arrow below the <absences> button and choose 'Reasons of absence' or you just click on the <Absences> button, then the respective window is opened with the pre-defined window group.

A reason of absence (e.g. illness, further training) can then be assigned to each absence in the [Absences window](#) (opened also by clicking on the right mouse button and by selecting 'Absences').

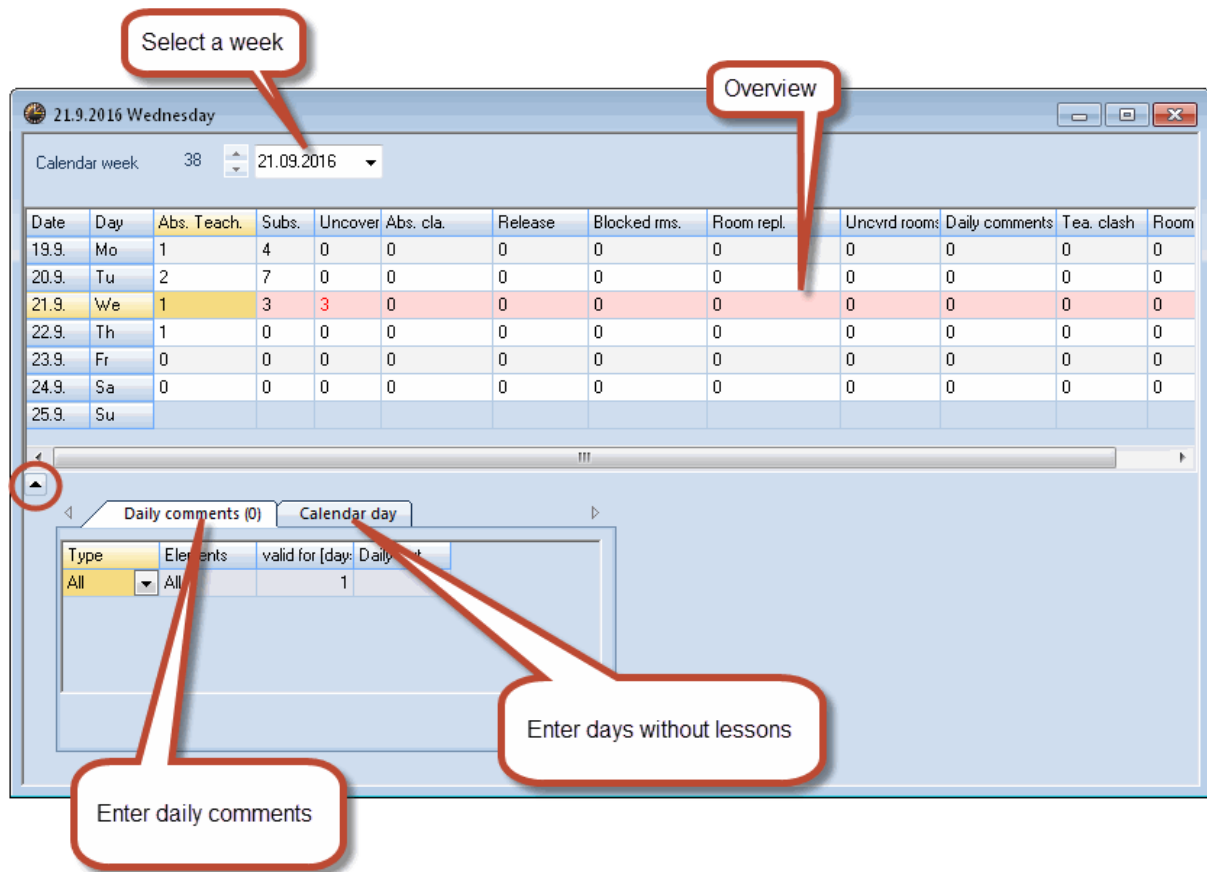


2.3 Calendar

Open the calendar by clicking on the 'Calendar' button on the 'Cover scheduling' tab. It gives an overview regarding any numbers you need in scheduling covers. Select a day, enter days on which there is no school or create messages for the day for cover scheduling.

Note:

As you are used to it in Untis, the windows communicate with each other, e.g. by selecting a date in the calendar the absence window is set to this date, too.



The calendar has the following layout:

- The date is selected in the section at the top.
- In the centre section you see an overview of the substitution and cover situation and you can select a specific day.

By clicking on the little black arrow at the bottom left the lower section is opened.

- In the lower section on the tab '[Daily comments](#)' you can create and edit comments regarding time or time periods.
- On the tab '[Calendar day](#)' you can define non-teaching times.

2.3.1 Details window calender

The details window show the following information for each day:

| Date | Day | Abs. Teach. | Subs. | Uncover | Abs. cla. | Release | Blocked rms. | Room repl. | Uncvrd rooms | Daily comments | Tea. clash | Room clash |
|-------|-----|-------------|-------|---------|-----------|---------|--------------|------------|--------------|----------------|------------|------------|
| 19.9. | Mo | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20.9. | Tu | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21.9. | We | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22.9. | Th | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23.9. | Fr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24.9. | Sa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25.9. | Su | | | | | | | | | | | |

Abs.Teach. ...the number of absent teachers

Subs. ...the number of substitutions resulting of the absences

Uncovered ...the number of still uncovered substitutions which need to be covered

Abs.cla. ...the number of absent classes

Release. ...the number of releases as a result. These are periods in which teachers are available (released) due to the absence of classes.

Blocked rms ...the number of blocked rooms

Room repl. ...the number of room replacements as a result

Uncvrd rooms ...the number of uncovered room replacements which are still to be found for the alternative room

Daily comments ...shows the number of daily comments entered on the respective day

Note: uncovered substitutions

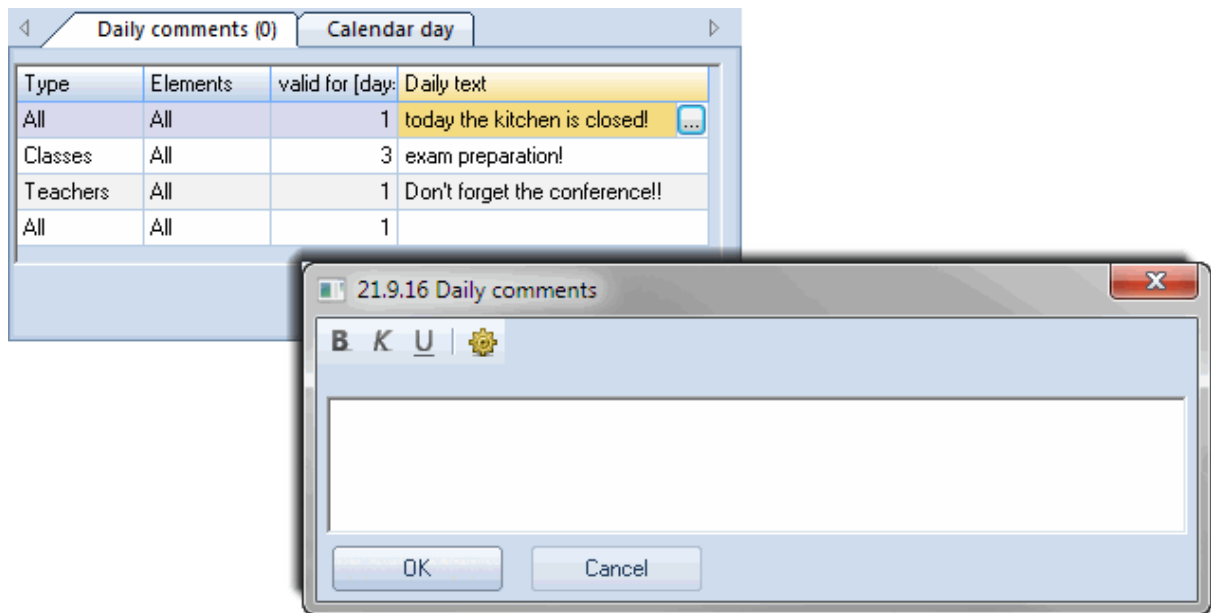
Not yet covered substitutions are also displayed in red.

2.3.2 Daily comments tab

You can use a Daily commentst to add additional information to the substitution lists. The daily comments can be displayed in all substitution lists or you can restrict them to either teachers or to classes. You can also send texts just to certain classes or teachers.

Proceed as follows to enter a daily comment:

1. Select the elements for which the daily text is to be output in the 'Type' and 'Elements' columns.
2. Then click on the button displayed in the right of the daily text column to open a window allowing you to enter the daily text.



3. The daily text will now be displayed in the corresponding lists.

Class 19.9. / Monday

Daily comments for all: today the kitchen is closed!

Daily comments for classes: Examen preparation!

2b Class 2b (Andersen)

| Subst. No. | Class(es) | Period | Subject | Substitute | Room |
|------------|-----------|--------|---------|------------|------|
| 296 | 2b | 1 | DE | ??? | R2b |
| 299 | 2b | 7 - 8 | AR | --- | --- |

Daily comments for teachers:

Teacher 19.9. / Monday

Today the kitchen is closed!

Don't forget the conference!

--- Cancellations

| Subst. No. | Substitute | Period | Subject | Class(es) | Room | (Teacher) | T |
|------------|------------|--------|---------|-----------|------|-----------|----|
| 296 | ??? | 1 | DE | 2b | R2b | Callas | Si |
| 297 | ??? | 3 - 4 | AR | 4 | | Callas | Si |
| 299 | --- | 7 - 8 | AR | 2b | --- | Callas | C |

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2.3.3 Calendar day tab

On the tab 'Calendar day' you can either set the whole day as a non-teaching day or only certain hours. In non-teaching times no substitution is generated.

The remarks (for the day) field is dedicated to reminders for the substitution scheduler only, i.e. it cannot be printed.

2.4 Entering absences

An Absence is the absence of one of the three master data elements teacher, class or room (in the latter case blocking would be a more accurate expression). The absences window is used to enter and edit absences. You can open the absences window via the 'Absences' button on the 'Cover scheduling' tab or via the context menu displayed when you press the right mouse-button.

Use the tabs in the center section of the window to set the type of element which you want to set as absent, i.e. teacher, class or room. You can also select the date using the little arrow.

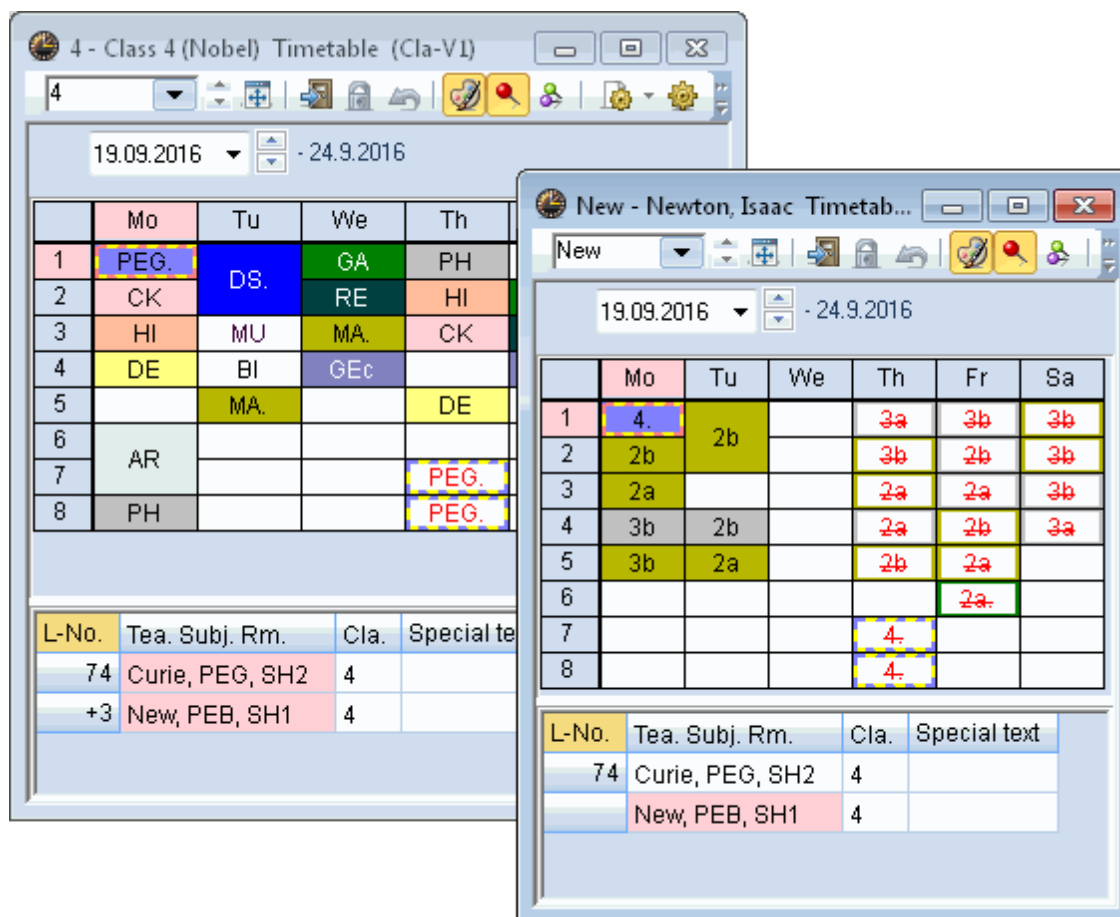
Note: Selecting a period of time

Via the button with the calendar symbol or the 'Settings' you can select the period of time for the absence window: either day, week or a self-defined period of time.

| Abs. No. | Teacher | from DD.MM. | FROM period | to DD.MM. | TO period | Abs. reason | Text |
|----------|---------|-------------|-------------|-----------|-----------|-------------|------|
| 2 | New | 22.09. | 1 | 25.09. | | IL | |
| | | | | | | | |

Our example shows an absence for teacher Newton, who will be absent in the period 22 to 25 September from the first to the eighth period. The reason for his absence is IL, i.e. illness. A free text can be entered to describe the absence in the 'Text' field.

The effects of absences are seen in the timetable immediately after they were entered. You also can see where substitutions are still required.

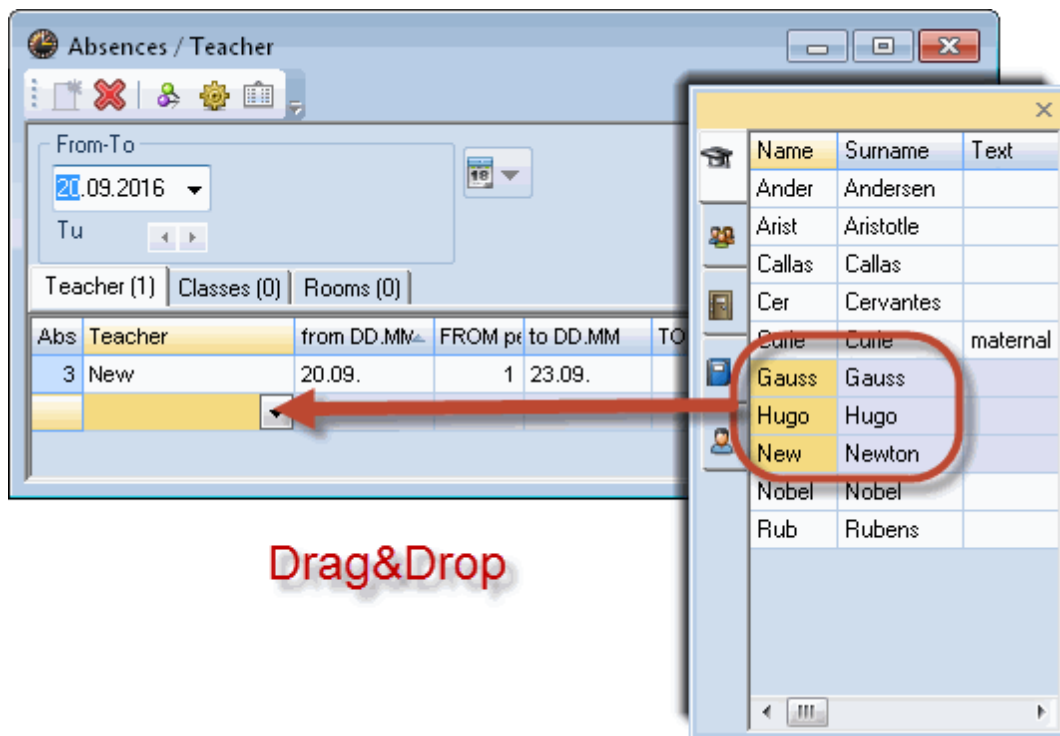


Note: Different types of absence

The absence of a teacher results in [substitutions](#) and [cancellations](#) , the absence of a class in [releases](#) for teachers and the absence (blocking) of a room in [room replacements](#) .

Entering absences with the element-rollup

The element-rollup, which can be applied by clicking on the 'Element-Rollup' button can be used for entering absences, too. This allows you to enter several absences at once.



Drag&Drop

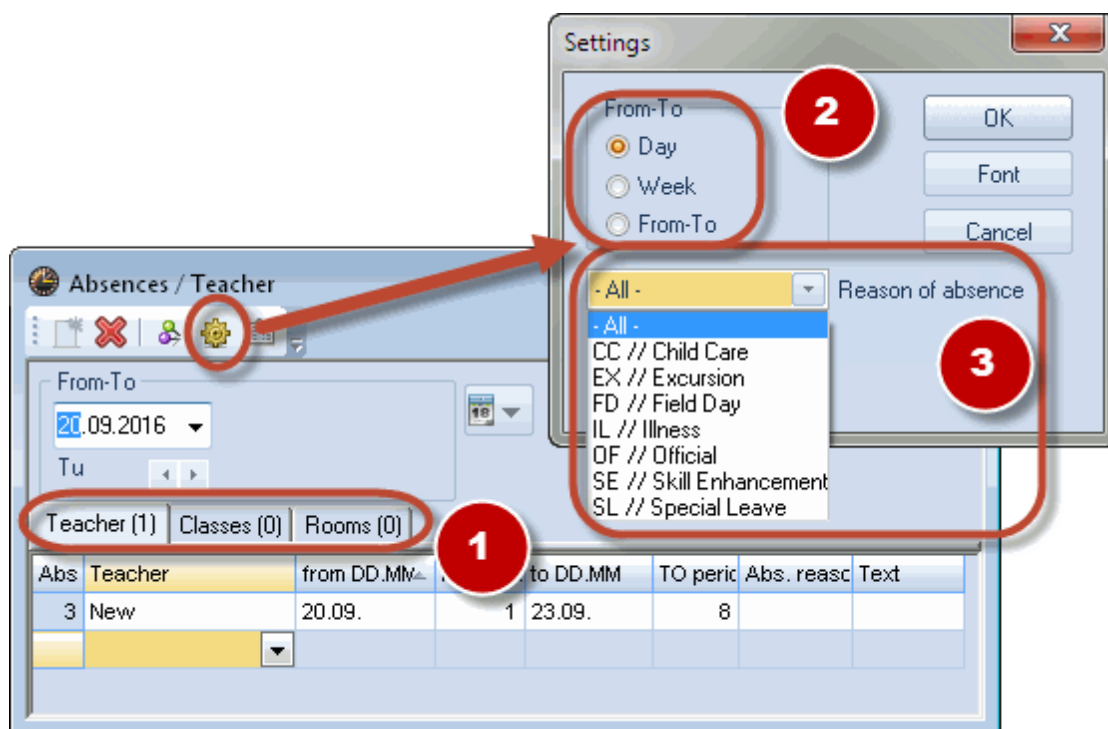
2.4.1 Filtering and printing absences

The contents of the absence window grid view are basically printed as displayed on the screen. This means that column and row order is retained.

Filtering

There are three different ways to filter in order to obtain exact information from a large number of absences:

- Filtering by element (1)
- Filtering by period of time(2)
- Filtering by reason of absence (3)



2.5 Substitutions window

As soon as an absence is entered, the substitutions window immediately displays the resulting substitutions. You can open the substitutions window either via the context menu (with a right mouse click) or via the <substitutions>button on the 'Cover scheduling' tab.

| Subst. N | Substitut. | Period | Subjec | Class(es) | Room | (Teacher) | Type | Substitution text | Signature | Stat. code(s) | Cour | Cour |
|----------|------------|--------|--------|-----------|------|-----------|---------------|-------------------|-----------|---------------|------|------|
| 548 | ??? | 1 | DE | 2b | R2b | Callas | Substitution | | | | ✓ | |
| 339 | ??? | 1 | MA | 2a | R2a | New | Substitution | | | | ✓ | |
| 340 | ??? | 2 | PH | 2a | PL | New | Substitution | | | | ✓ | |
| 549 | ??? | 3 | AR | 4 | | Callas | Substitution | | | | ✓ | |
| 341 | ??? | 3 | PH | 3b | PL | New | Substitution | | | | ✓ | |
| 343 | ??? | 3/4 | | | Ar1 | New | Break superv. | | | | | |
| 342 | ??? | 4 | MA | 3b | Ra | New | Substitution | | | | ✓ | |
| 469 | ??? | 4 | TX | 1a | TW | Curie | Substitution | | | | ✓ | |
| 550 | ??? | 4 | AR | 4 | | Callas | Substitution | | | | ✓ | |
| 470 | --- | 5 | TX | 1a | --- | Curie | Cancelled | | | | ✓ | |
| 551 | --- | 7 | AR | 2b | --- | Callas | Cancelled | | | | ✓ | |
| 471 | --- | 7 | HE | 3a, 3b | --- | *Curie | Cancelled | | | | ✓ | |
| 552 | --- | 8 | AR | 2b | --- | Callas | Cancelled | | | | ✓ | |
| 472 | --- | 8 | HE | 3a, 3b | --- | *Curie | Cancelled | | | | ✓ | |

Besides the date and lesson period, the substitution also displays the elements involved in the substitution (subject, class, room). The '(Teacher)' column contains the name of the teacher who would

normally be taking the lesson and the 'Substitute' column contains the name of the substitute allocated to the substitution.

You can also enter a substitution text of your choice.

When the substitutions are printed out, the substitute can use the initials field to indicate that he/she acknowledges the substitution.

Type of substitution

This column indicates the type of substitution. It cannot be edited and serves purely informational purposes.

Substitution

:

This is a "normal"[substitution](#)

, i.e. the period of an absent teacher will be covered by another teacher.

Supervision

:

Supervision takes place when a teacher supervises a class whose teacher is absent in addition to his/her own regular lesson (please refer to chapter"[Supervision suggestion](#)")

Cancellation

:

A lesson where no cover is provided for the absent teacher is designated cancelled.

Release

:

A release is a period where a teacher is made available (released) due to the absence of a class that he/she would normally have to teach.

Room.repl

::

If a replacement room needs to be allocated to a period instead of the room originally scheduled, this is a Room replacement (please also refer to chapter"[Room replacement](#)").

Special duties

:

A special duty is understood to be a lesson that needs to be held at short notice and which can be entered in the[Scheduling dialogue](#) or directly into the timetable (please refer to chapter"[Special duties](#)").

Shifting

:

This entry indicates that a lesson period was relocated here from another period (please refer to chapter"[Shifting periods](#)").

Swap

:

A swap of two periods (please refer to chapter"[Swapping periods](#)").

Teacher swap

:

A teacher swap occurs when a teacher is allocated in a period when he/she also has a lesson and this has to be taken by another teacher.

Contrary to absence

:

A teacher is allocated to a substitution although he/she is absent..

2.5.1 Processing substitutions

After [absences](#) have been entered, substitution rows will be displayed in the [substitutions window](#) that need to be processed individually. You have the following possibilities, which are explained in detail below:

- [Cancellation](#)
- [Substitution](#)
- [Supervision](#)
- [Room allocation](#)

2.5.1.1 Cancellation

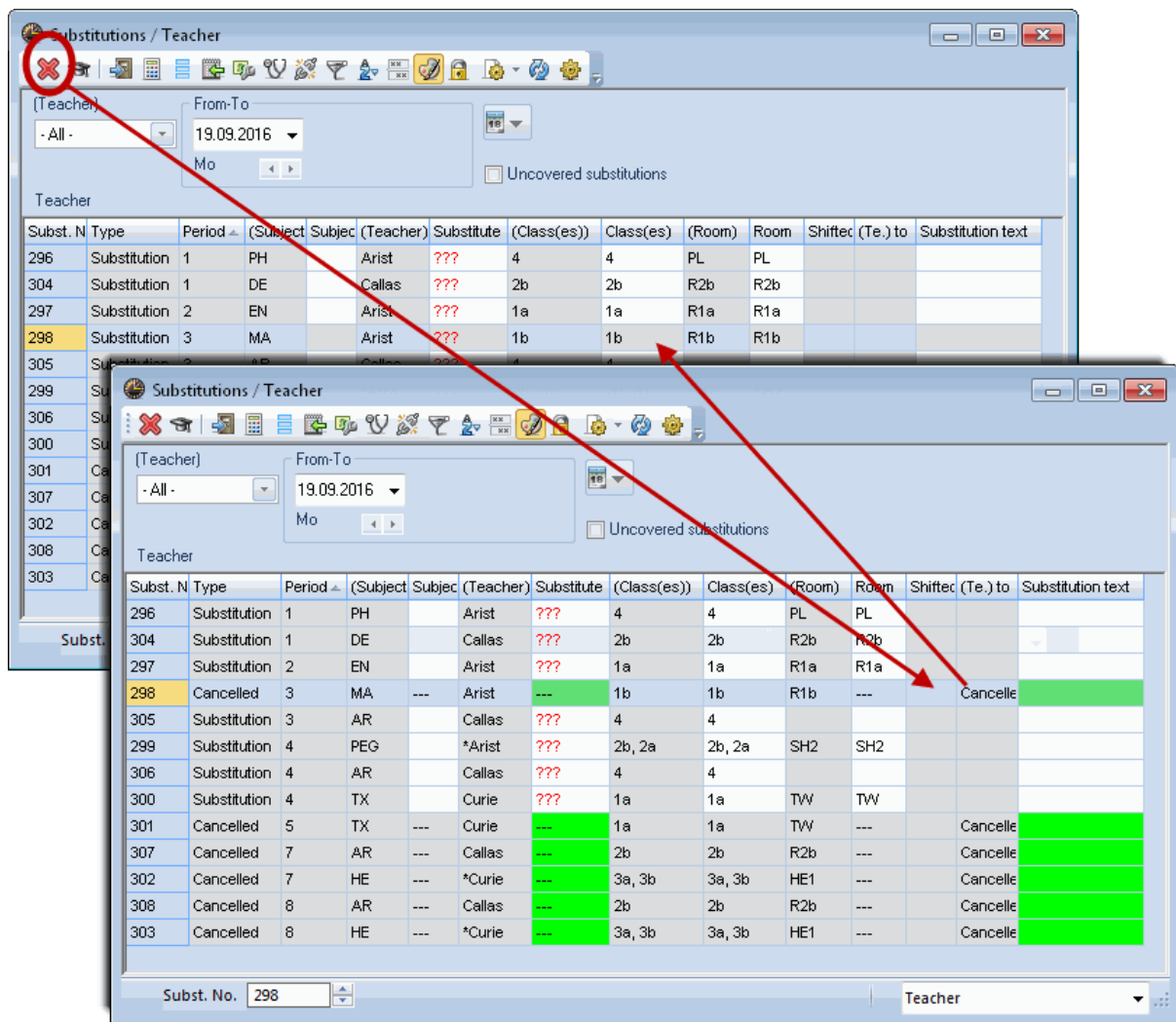
There are two types of cancellation: there is the substitution type 'cancellation' and the <Cancelled> button in the substitutions window.

Substitution type

The 'Cancelled' type designates a lesson where there is no cover for the absent teacher and which is therefore cancelled. You specified in the [substitutions time grid](#) when cover should by default be provided and when periods should be cancelled. It is therefore possible that certain lessons are set to 'cancelled' immediately after an absence is entered.

Button

The <Cancelled> button allows you to change any open (i.e. not yet processed) and any already processed substitutions to 'cancelled'.



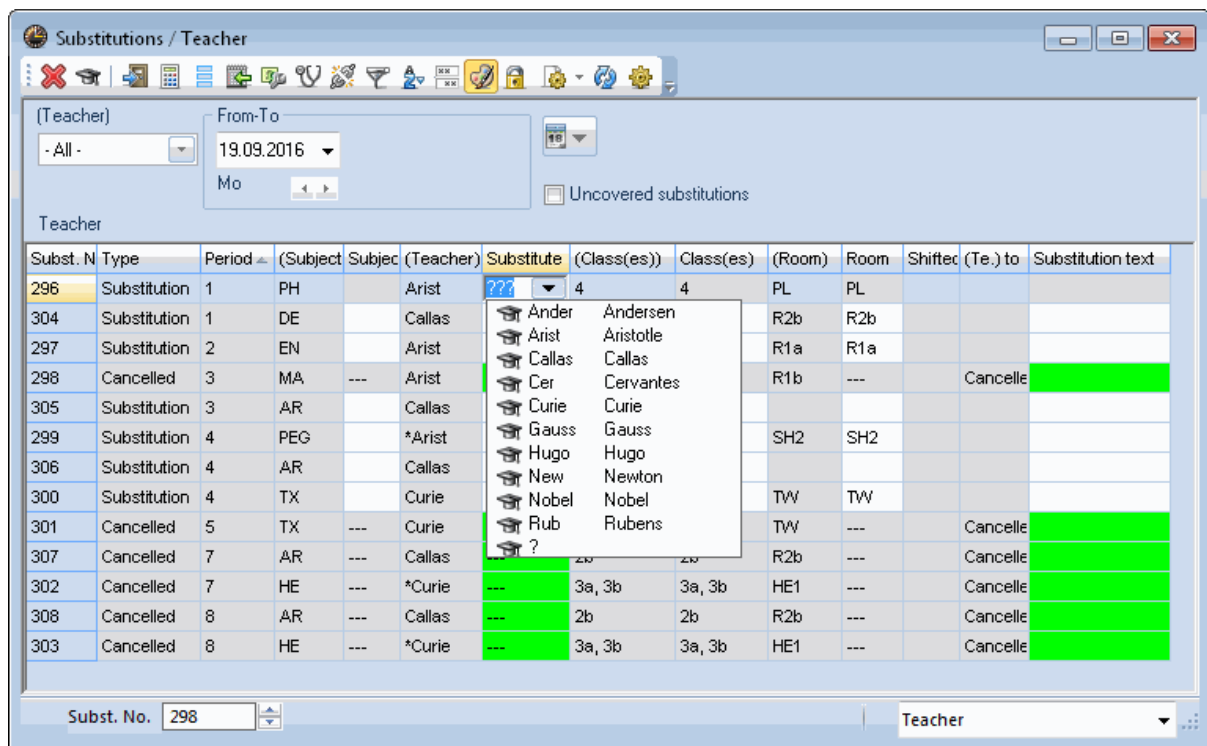
Note: Cancellation -> substitution

If you wish to change a cancellation back into an open substitution, click once more on the <Cancelled> button.

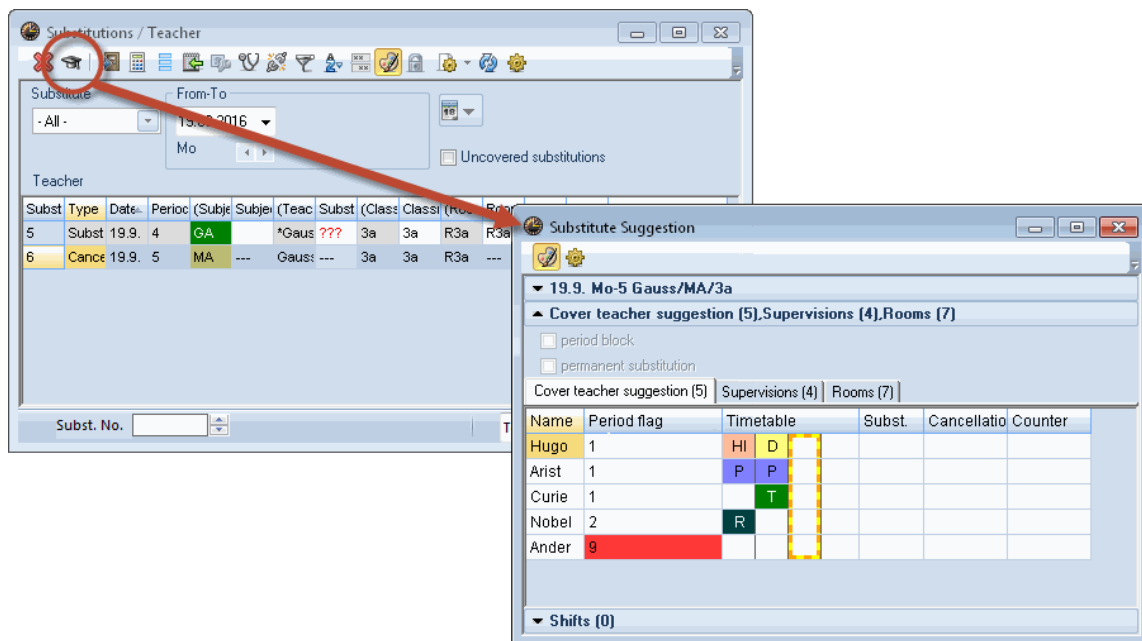
2.5.1.2 Substitution

There are three ways of adding a substitute to an open substitution :

- Simply enter the desired substitute in the 'Substitute' column.
- Select the substitute from a drop-down list.



- However, in most cases you will want to access additional information. The substitution suggestion is the ideal solution for this.

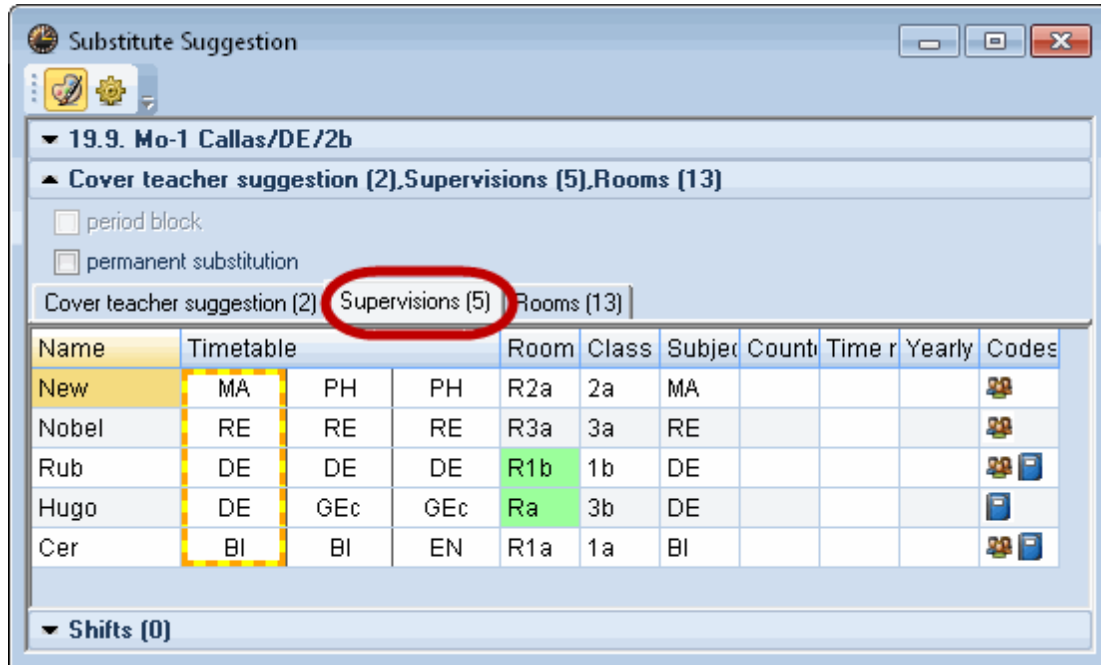


This function suggests a list of possible substitutes. As you see, for the current substitution Curie, Hugo, Arist, Nobel and Ander are available as substitutes. Double clicking on the name adds the desired teacher as substitute.

The individual fields in this list are explained in detail in the chapter on ' [Substitute Suggestion](#)'.

2.5.1.3 Supervision

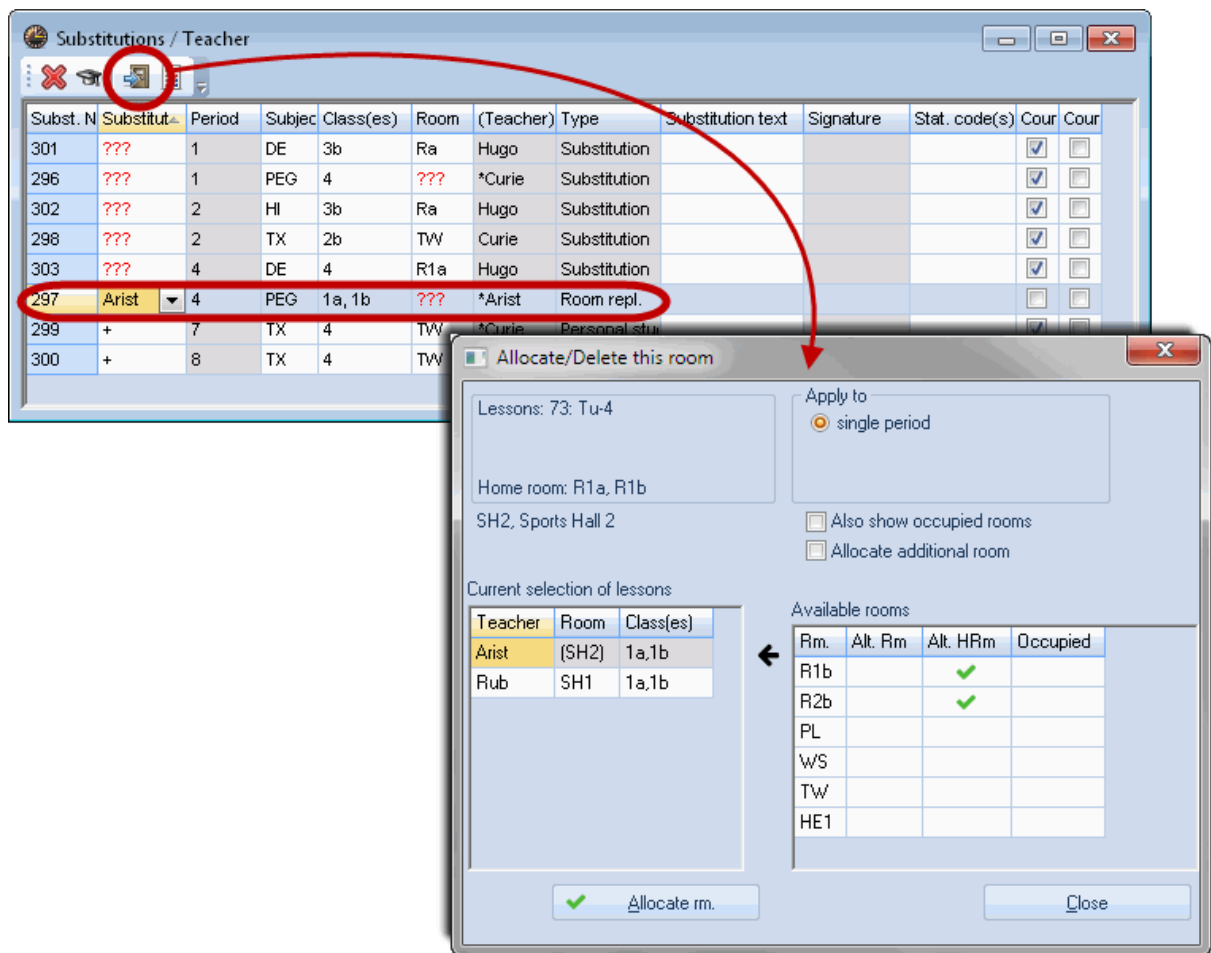
You will find the <Supervision> button in the top left of the substitute suggestion window. When this button is activated, all teachers will be displayed who are available for supervision, i.e. who have a lesson in the current period.



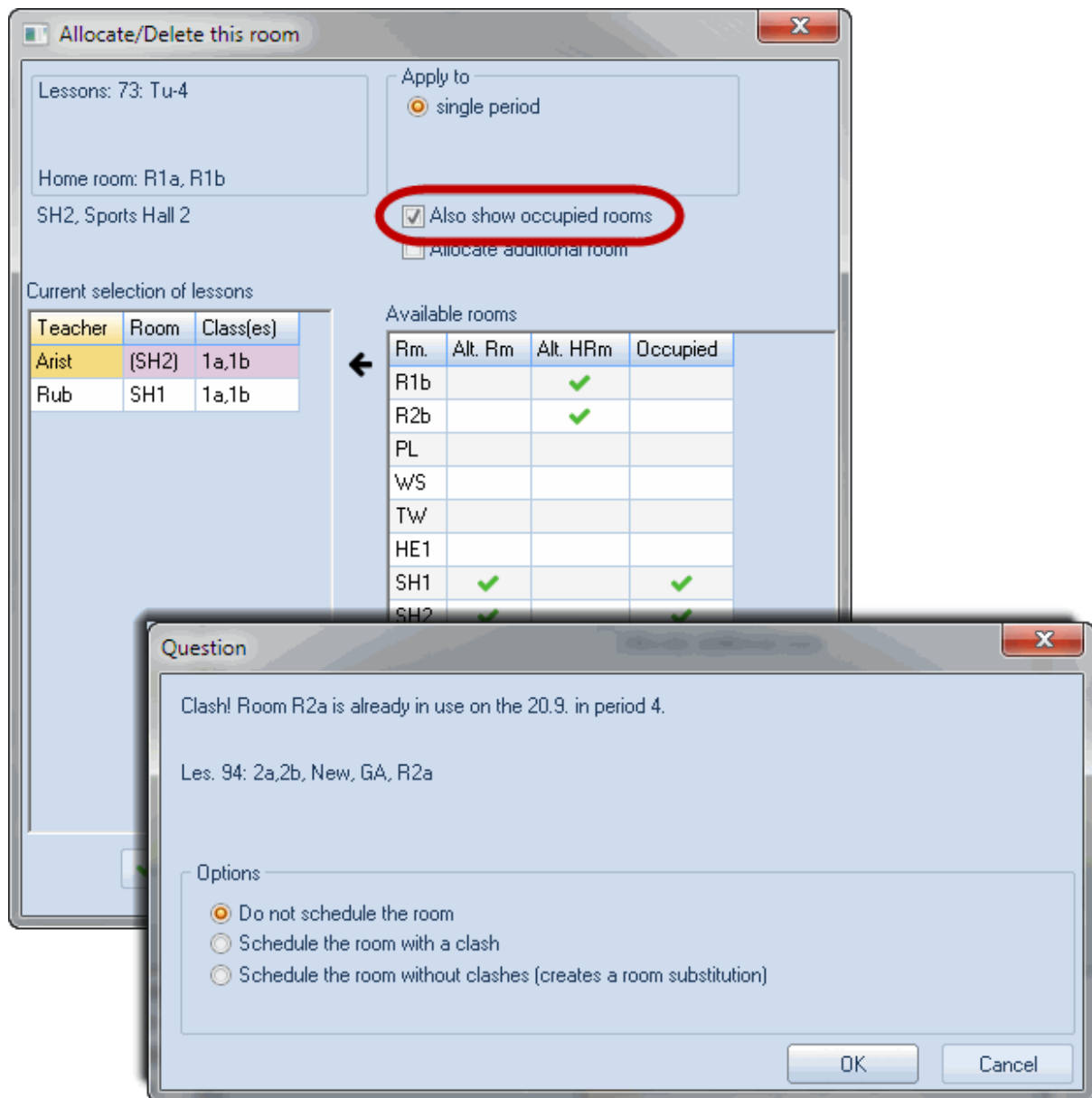
You will find more details on this in the chapter ' [Supervision suggestion](#)'.

2.5.1.4 Room replacement

If a room is blocked, another room must be allocated in its place. You can use the <Allocate/Delete this room> button to find a suitable replacement room for the lesson. The highlighted room can be added to the list with a double click or with the <Allocate rm.> button.



The room allocation dialogue allows you to display and select already occupied rooms, too.



Selecting an occupied room results, quite naturally, in a conflict, which you can resolve with one of the proposed options, as illustrated in the figure above.

2.6 Suggestion

This function opens a list of possible substitutes with the 'most suitable' candidates at the top of the list. A substitute can be selected by double clicking on his/her name .

Tip: Displaying/hiding columns

Clicking on the header row in the Substitute suggestion window with the right mouse-button displays a context menu in which columns that are not required can be hidden. You can use drag&drop to change the order of the columns.

| Name | Period flag | Subst. | Subject | Timetable | Counter | Last week |
|-------|-------------|--------|---------|-----------|---------|-----------|
| Arist | 0 | | | E M | | |
| Nobel | 9 | | | | | |

The 'most suitable' candidate is the teacher at the top of the list. The order is determined based on the following criteria.

Period flag

The period flag is an indicator representing how good the substitute matches the teacher's timetable. It defines the 'gap' to the next 'regular' period.

Period flag x:

The teacher concerned was released due to an absent class and instead of his regular lessons he would have a free period.

Period flag 0:

Non-teaching period between two lessons.

Period flag 1:

The period to be covered is directly adjacent to a 'regular' lesson.

Period flag 2:

There is one free period between the period to be covered and the next 'regular' lesson.

Period flag 3-8:

Similar to period flag 2.

Period flag 9:

The teacher has no lessons on the respective day and shall not be considered for the substitution.

Counter

The counter is a total made up of substitutions and cancellations.

Substitutions that the teacher has performed are set off against lesson cancellations (e.g. resulting from class absences). The period taken into consideration here is a month. The number will be negative, if cancellations outweigh substitutions. The candidate has a 'substitution deficit', the counter is displayed green meaning that he/she can be deployed in substitutions.

Yearly total

The year total functions in a similar way to the counter. The period taken into consideration here is the school year.

Substitutions, Cancellations

Substitutions and cancellations, which are the basis for the calculation of the counter, are displayed separately in these two columns. This allows you to consider the numbers separately when making up your mind about the substitution.

Last week

If a substitution was performed in the previous week by a teacher from the substitute suggestion, this will be displayed green in 'Last week' column and marked with a check sign.

Class

A class symbol in this column indicates that the teacher concerned teaches the class.

Subject

If you see a book symbol here, the proposed teacher teaches the subject of the open substitution.

Supervisions

This column displays the number of supervisions in the month (please also refer to the chapter ['Supervision suggestion'](#) below)

Time requests

This is where any time requests of the substitution candidate are displayed.

Periods / day

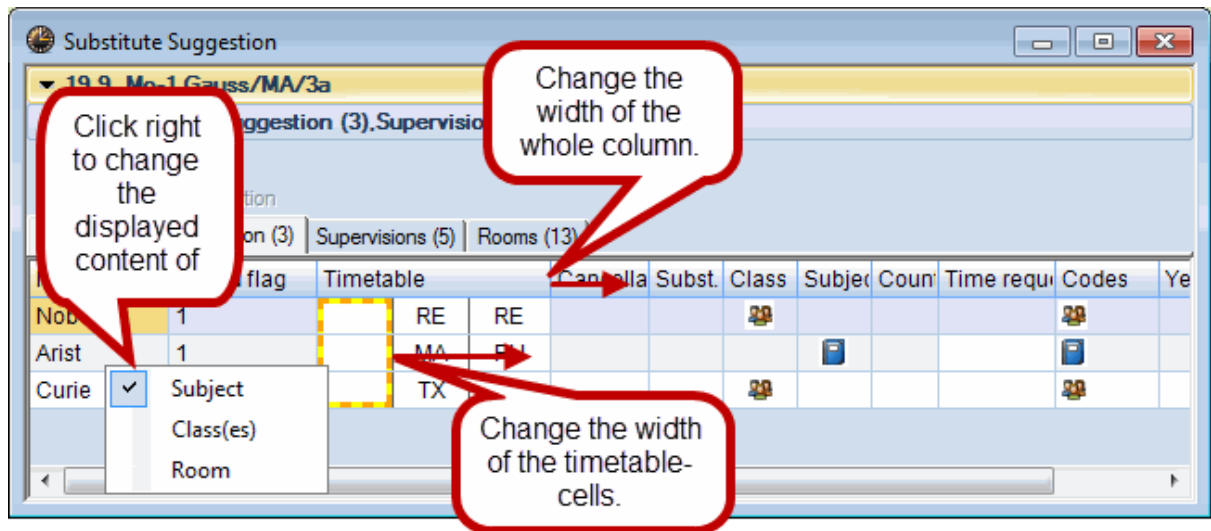
This field displays the periods for the proposed teacher on the respective day.

Points

Points are awarded for each criterion (period flag, counter etc.). These are penalty points meaning that the teacher with the lowest number of points (most negative number) is the most suitable candidate.

'Timetable' column

This column enables you to graphically check the qualifications as a substitution based on the periods to be covered (framed) in the timetable.

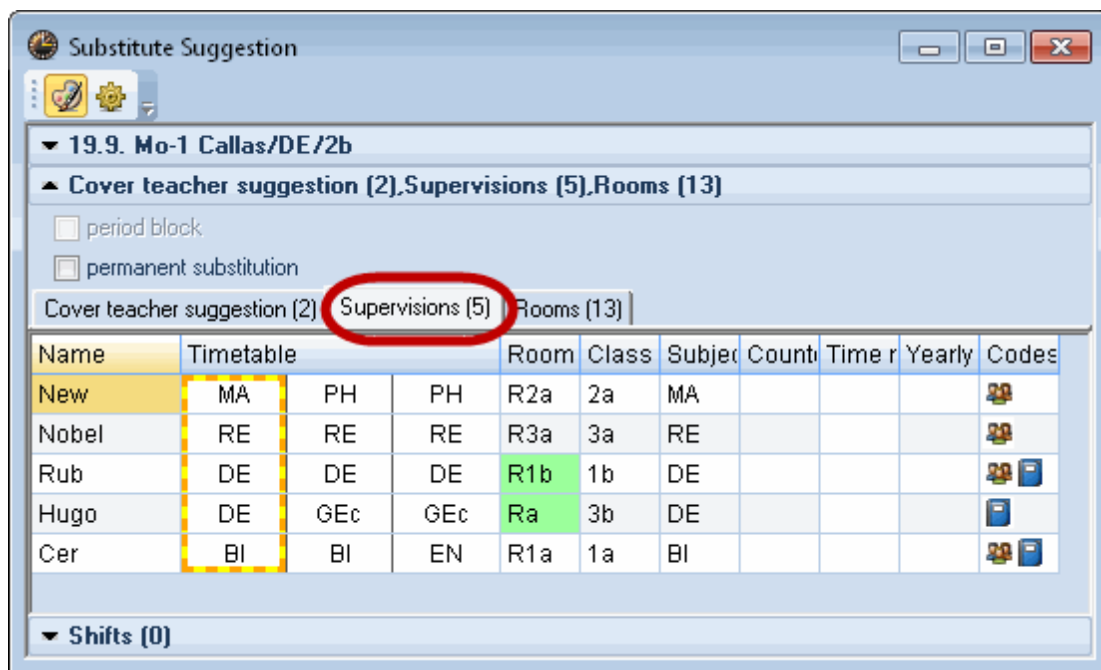


You can widen the whole column in order to be able to see more periods at once or you can adjust the width of the period window. By clicking the right mouse button you can also select what kind of information should be displayed in the fields.

2.6.1 Supervision suggestion

In the case of some lessons the absent teacher is not to be substituted by another teacher who is free at the desired time but by a teacher who teaches in the respective period. This is a supervision.

A version of the [substitute suggestion](#) is the supervision suggestion. This tool displays those teachers who are teaching during the respective period and who thus in principle are available for supervision.

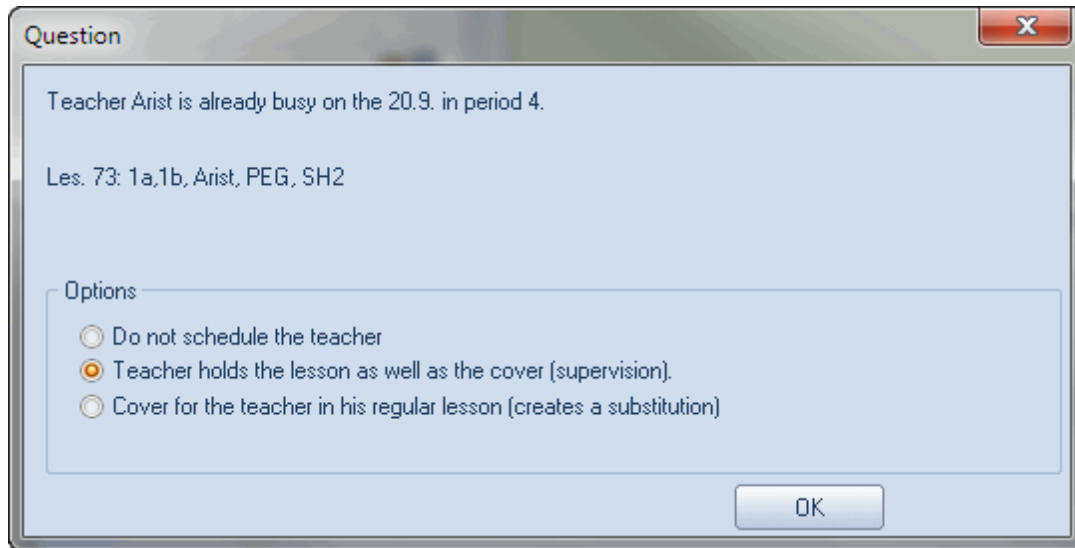


This requires somewhat different information than the conventional [substitute suggestion](#) :

1. Room: the room where the teacher is currently scheduled to teach
2. Subject: the subject taught by the potential supervisor

The other fields are identical with those in the substitute suggestion.

If you choose a supervisor (by double clicking), you will be asked which option you would like to choose.

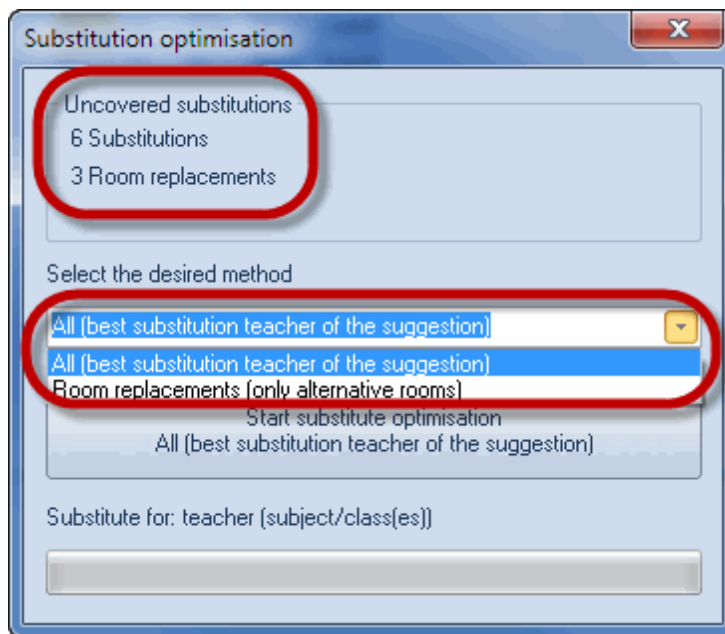


2.6.2 Automatic substitution optimisation

You can process all uncovered substitutions automatically just by clicking the <Automatic> button in the [substitutions window](#).

The upper section of the window provides an overview of uncovered substitutions.

The "Select the desired method" option allows you to choose whether you wish to process all uncovered substitutions or only room replacements.



You can start the automatic substitution function by activating the appropriate button.

You will see the message "OK" as soon as automatic processing finishes and you will see the number of remaining uncovered substitutions in the top section of the screen.

During the automatic substitutionoptimisation the teacher at the top of the [substitution suggestion](#) list and thus the one considered the most suitable substitute will be allocated. Only alternative rooms will be allocated as room replacements. If there is no suitable alternative room, the room replacement will remain open and you can look for a free room in the [room allocation dialogue](#).

2.7 Scheduling in the timetable

You can perform the following cover planning functions directly in the timetable:

- [Move](#)
- [Swap periods](#)
- [Cancellation](#)
- [Special duties](#)
- [Room allocation](#)

2.7.1 Moving periods

Individual periods can be moved using drag&drop in the same way as in the timetable modus.

Empty green fields mean that a move to this position is possible without creating a clash.

2a - Class 2a (Hugo) Timetable...

19.09.2016 - 24.9.2016

| | Mo | Tu | We | Th | Fr | Sa |
|---|------|------|-------|-------|------|------|
| 1 | DE | TX. | PH | EN | MA | RE |
| 2 | RE | TX. | BI | HI | GA. | DE |
| 3 | MA | PEB. | HI | DE | DE | EN |
| 4 | EN | MA | MU | MA | EN | GEc. |
| 5 | | | CH. | | | BI |
| 6 | PO C | | | GEc. | C OA | |
| 7 | PO C | AR | PO VN | *PEB. | C OA | |
| 8 | | AR | PO VN | *PEB. | PH | |

L-No. Tea. Subj. Rm. Cla. Special text

+3

If you shift a period using drag&drop, the move will be displayed in the substitutions window. In the example, the physics period for 3b was moved from Mo-1 to Mo-6.

Substitutions / Teacher

| Subst | Substitut | Period | Subject | Class | Room | (Teac | Type | Substitution | Signature | Stat |
|-------|-----------|--------|---------|-------|------|-------|-------|--------------|-----------|------|
| 1 | --- | 5 | EN | 2a | --- | Cer | Cance | | | |

Substitutions / Teacher

| Subst. No. | Substitut | Period | Subject | Class(es) | Room | (Teacher) | Type | Substitution | Text | ter subst. |
|------------|-----------|--------|---------|-----------|------|-----------|----------|--------------|------|------------|
| 9 | Cer | 5 | EN | 2a | R3a | Cer | Shifting | | | |

Moving part of a coupling

If a teacher from a coupled lesson with 2 or more teachers is to be moved, you can perform this in the

teacher's timetable. The example shows how on teacher Gauss' lesson was moved from a coupling between Gauss and Curie from We-5 to We-6.

Rub - Rubens, Paul Timeta...

Rub

19.09.2016 - 24.9.2016

| | Mo | Tu | We | Th | Fr | Sa |
|---|------------|------------|------------|-------------|------------|----------|
| 1 | 3a HI | 1b DE | 3a. PEB | 1b DE | 4 BI | |
| 2 | 4 CK | | 1a. PEB | 1a DE | 3a. PEB | 1b DE |
| 3 | 3a. PEB | 2b. PEB | 3a HI | 4 CK | | |
| 4 | 1a. PEB | 4 BI | 1a DE | 2b HI | 1a DE | |
| 5 | 1b DE | 2b HI | *2a. EN | | | |
| 6 | | | | | | |
| 7 | | | | *2b. PEB | | |
| 8 | | | | | 1a. PEB | |

| L-No. | Tea. Subj. Rm. | Cla. | Time | School wee |
|-------|-----------------|--------|------|------------|
| 75 | Rub, PEB, SH1 | 2b, 2a | | 1-41 |
| | Arist, PEG, SH2 | 2b, 2a | | |

Tea-Diag - Teacher-Diagnose*

Curie remains at We-5. This is displayed accordingly in the [substitution window](#) as well as in the teacher and [class timetable](#).

Arist - Aristotle Tim...

19.09.2016 - 24.9.2016

| | Mo | Tu | We | Th | Fr | Sa |
|---|----|----|----|----|----|----|
| 1 | 1a | 1a | 3a | 4 | 1a | |
| 2 | 1b | 1a | 1a | 1b | 3a | 1a |
| 3 | 3a | 2b | 1a | 1a | 1a | 1a |
| 4 | 1a | 1b | 1b | 1a | 1b | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | 2b | | |
| 8 | | | | 2b | 1a | |

L-No. Tea. Subj. Rm. Cla. Special

2b - Class 2b (Andersen) Timetable (Cla-V1)

19.09.2016 - 24.9.2016

| | Mo | Tu | We | Th | Fr | Sa |
|---|----|-----|-----|-----|----|-----|
| 1 | RE | | GEc | | RE | |
| 2 | MA | MA | MU | DE | PH | |
| 3 | | PEB | TX | BI | BI | DE |
| 4 | AR | PH | DE | HI | MA | GEc |
| 5 | MU | HI | *CH | MA | | |
| 6 | | | PEB | | GA | |
| 7 | | | PEB | PEB | TX | |
| 8 | | | | PEB | | |

| L-No. | Tea. Subj. Rm. | Cla. | Special text |
|-------|-------------------|----------|--------------|
| 75 | (Rub, PEB, SH1) | (2b, 2a) | |
| | Arist, PEG, (SH2) | 2b, 2a | |

2.7.2 Swapping periods

The green background in those fields of the timetable which are not empty indicates that you can perform a swap. The swap performed will also be displayed in the substitutions window.

2b - Class 2b (Andersen) Timet...

19.09.2016 - 24.9.2016

| | Mo | Tu | We | Th | Fr | Sa |
|---|----|-----|-----|------|----|-----|
| 1 | RE | MA | GEc | | RE | |
| 2 | MA | MA | MU | DE | PH | DE |
| 3 | AR | PEB | TX | BI | BI | DE |
| 4 | AR | PH | DE | HI | MA | GEc |
| 5 | MU | HI | *CH | MA | | |
| 6 | | | | | GA | |
| 7 | | | | *PEB | TX | |
| 8 | | | | | | |

L-No. Tea. Subj. Rm.

+3 New, MA, R2b

Question

What do you want to do on the 23.9. in period 2?

Les. 93: New, 2b.

Options:

- ☒ swap with the lesson in place (each lesson stays in the original room)
- ☐ swap with the lesson in place (the lessons also swap rooms)
- ☐ just shift the lesson

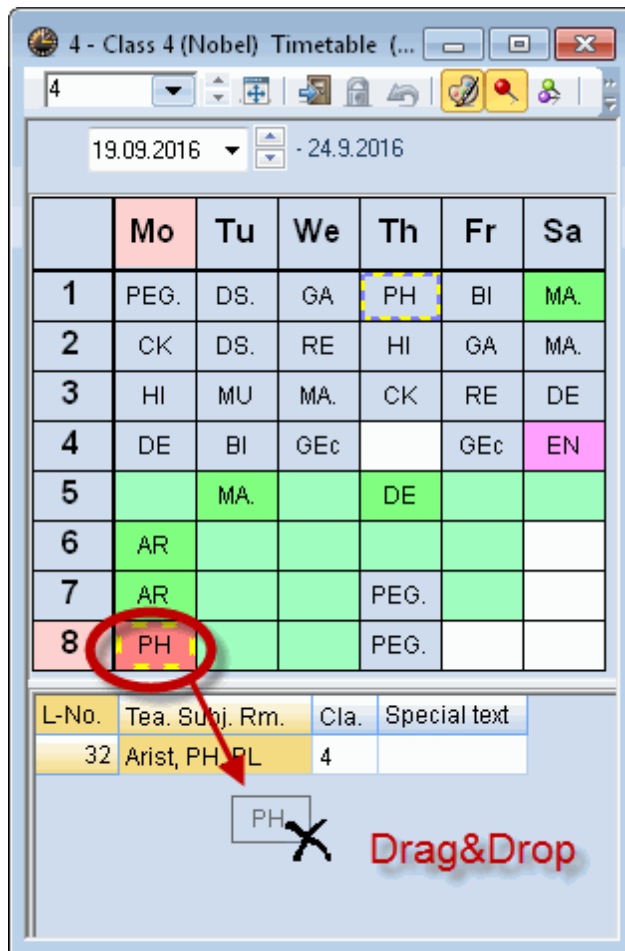
OK Cancel

Substitutions / Teacher

| Subst. No. | Period | Substitute | Subject | Class(es) | Room | (Teacher) | Type | Substitution text | Signature | Stat. code(s) | Counter canc. | Counter subst. |
|------------|--------|------------|---------|-----------|------|-----------|------|-------------------|-----------|---------------|--------------------------|-------------------------------------|
| 3 | 2 | New | PH | 2b | PL | New | Swap | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

2.7.3 Cancelling periods

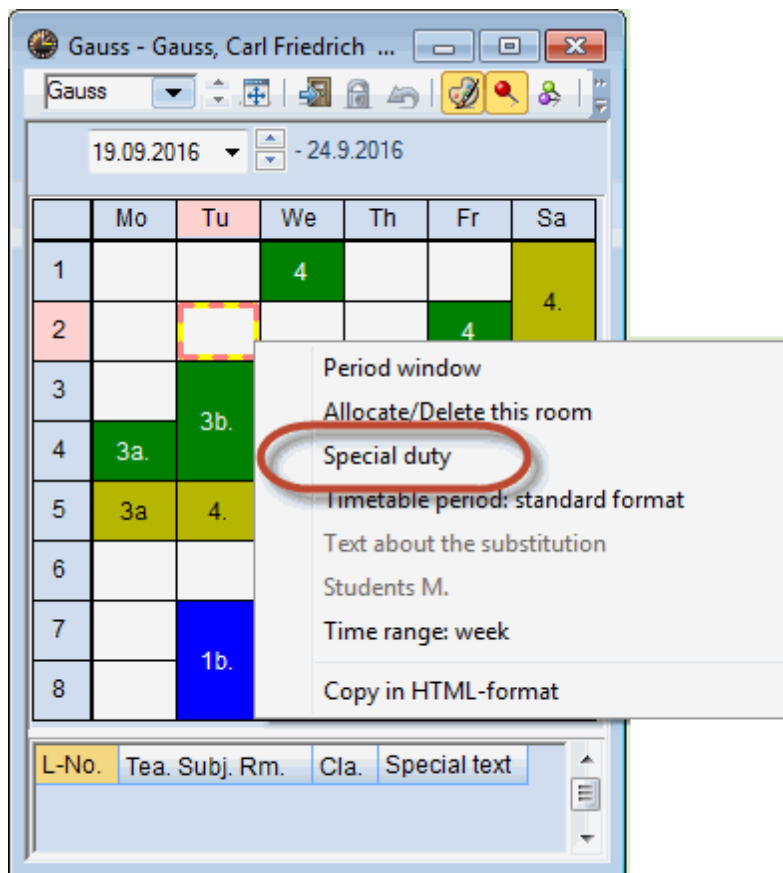
If a period is dragged into the timetable details window and "dropped" there (similar to unscheduling in the timetable mode) the period will be cancelled.



2.7.4 Special duties

A special duty is a lesson that needs to be held at short notice.

You can open a context menu by clicking on the right mouse-button and then select the 'Special duty' option.



You can now select all the elements for the special duty in a separate window.

Special duty: 20.9. / 2

Class
Classes: 0

Teacher
Gauss ☒ Only available teachers

Subject
MAT ☒ Only subjects of the teacher

Room
Phys ☒ Only free rooms

1aMatOly Student group

Preparations Mathematical Olympics Text

OK Cancel

The special duty is now displayed in the timetable and in the substitutions window.

Substitutions / Teacher

| Subst | Substitute | Perio | Subj | Class | Room | (Teac | Type | Substitution text | Signature |
|-------|------------|-------|------|-------|------|-------|-------|------------------------------------|-----------|
| 8 | Gauss | 2 | MA | | | | Spec. | Preparations Mathematical Olympics | |

Gauss - Gauss, Carl Friedrich Timetable (Tea-V1)

19.09.2016 - 24.9.2016

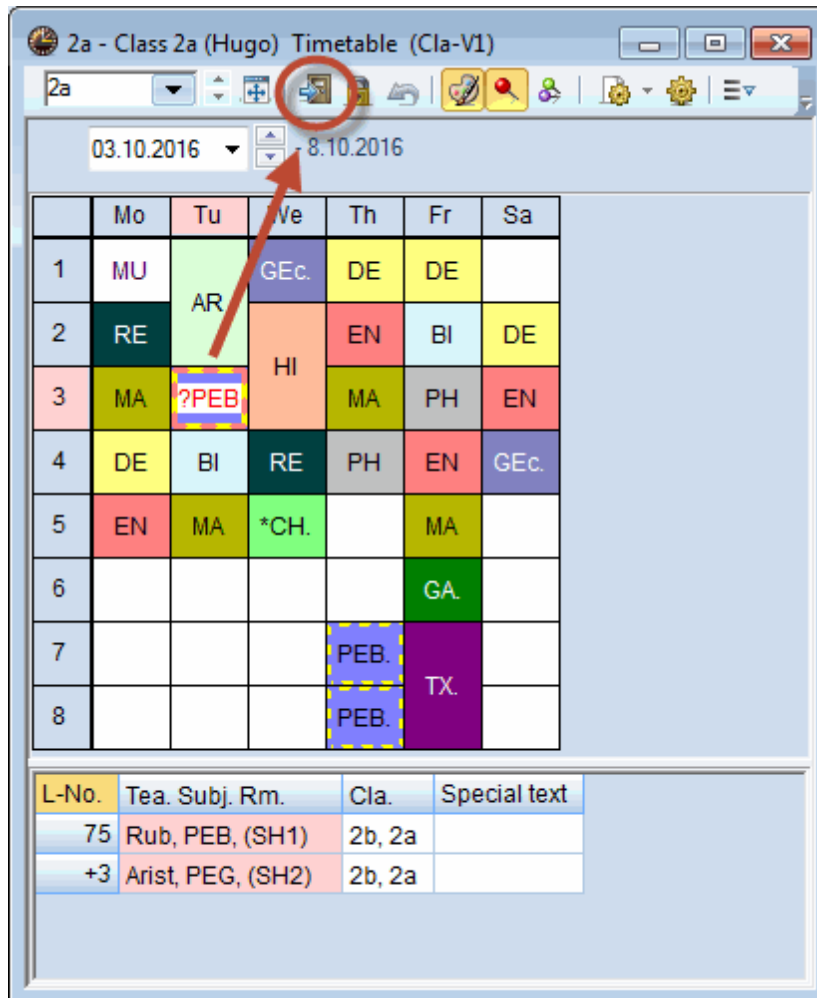
| | Mo | Tu | We | Th | Fr | Sa |
|---|-----|-----|------|-----|----|----|
| 1 | | | 4 | | | 4. |
| 2 | | X | | | 4 | |
| 3 | | 3b. | 4. | 3a. | 3a | |
| 4 | 3a. | | 3a | 3a | | |
| 5 | 3a | 4. | *2a. | | | |
| 6 | | | | | | |
| 7 | | 1b. | | | | |
| 8 | | | | | | |

| L-No. | Tea. | Subj. | Rm. | Cla. | Special text |
|-------|--------|-------|-----|------|------------------------------------|
| | Gauss, | MA | | | Preparations Mathematical Olympics |

2.7.5 Room replacement - room change

If a room was blocked using the absences window (marked as absent) the uncovered [room substitutions](#) can also be processed in the timetable directly via the <Allocate/Delete this room> button.

You can also use the same button to perform any room changes and room swaps.



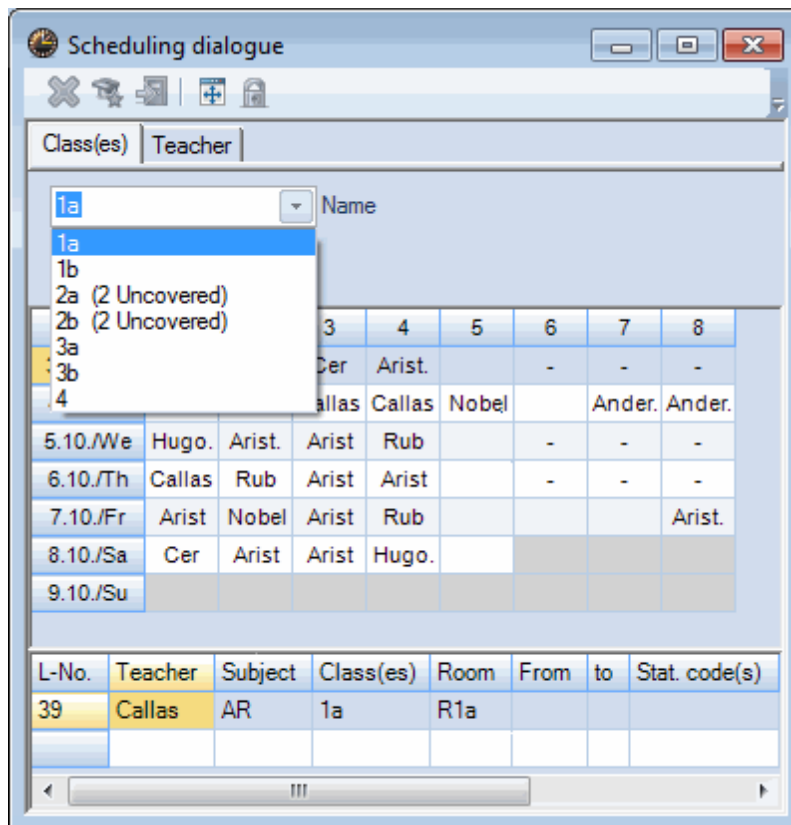
Please refer to chapter ' [Room replacement](#) ' for more details on this feature.

2.8 Scheduling dialogue

Substitutions can be processed in the [substitutions window](#) , in the timetable or in the scheduling dialogue. All functions available in the [timetable](#) can also be applied in the scheduling dialogue.

Open the scheduling dialogue via the scheduling dialogue button on the 'Cover scheduling' tab or via the context menu displayed when clicking the right mouse button

The scheduling dialogue shows the timetable of a week, either from the class or from the teacher perspective. The selection menu for classes shows the classes where uncovered substitutions still need processing.

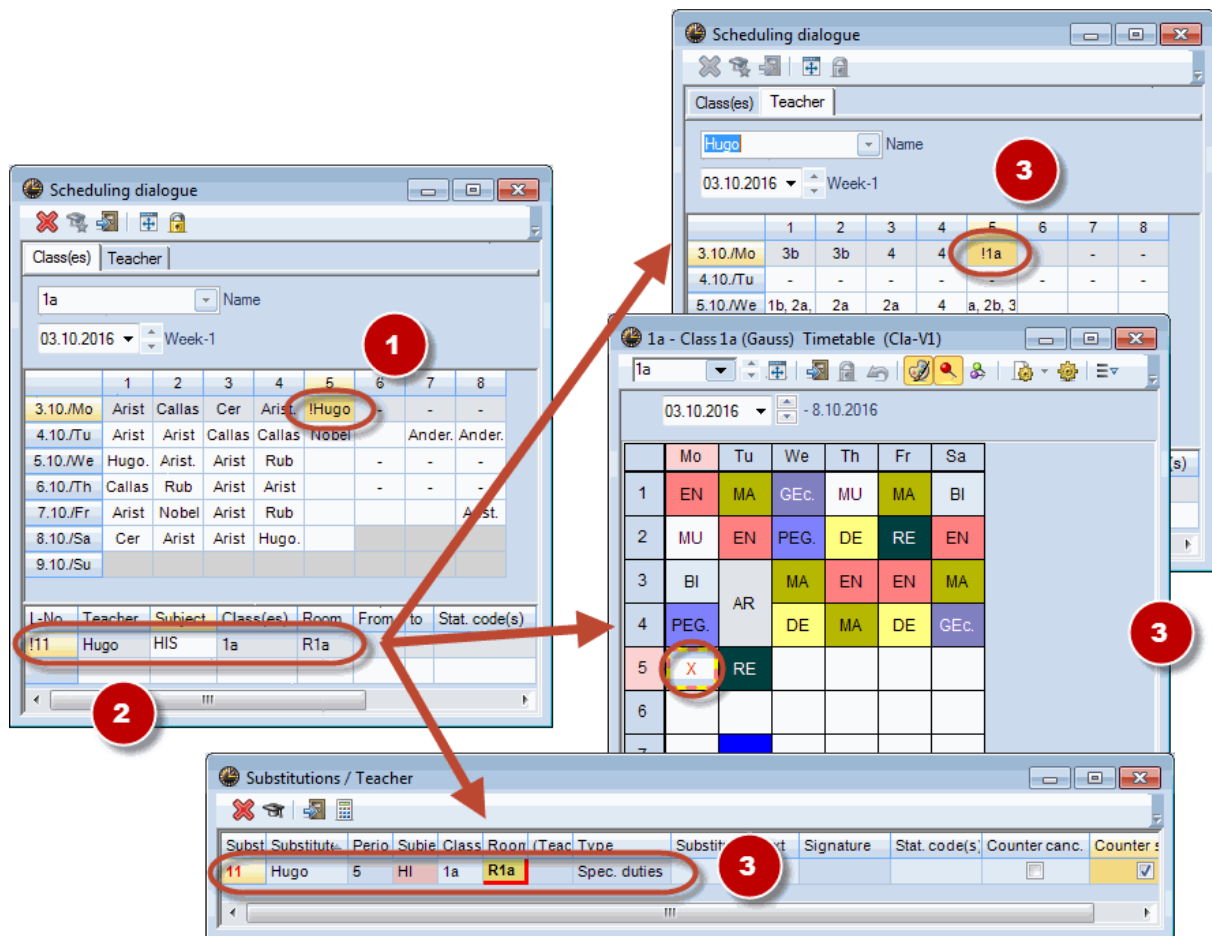


Editing the timetable details window

A special feature of the scheduling dialogue is that the [timetable details window](#) can be edited. This allows you to edit uncovered [substitutions](#) (including [room replacements](#)) and also to create [special duties](#) .

Example:

1. Activate the respective period.
2. Enter elements in the details window.
3. The special duties period will now appear in the scheduling dialog, in the timetable and in the substitutions window.



Cancellations in the scheduling dialogue

You can cancel a period using the cancelled button. You can reverse the cancellation by pressing the cancelled button once more.

You can cancel parts of a [coupling](#) by clicking on the coupling line and then activating the <Cancelled> button.

Scheduling dialogue

Class(es) Teacher

1a Name

03.10.2016 Week-1

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------|--------|--------|--------|--------|-------|---|--------|--------|
| 3.10./Mo | Arist | Callas | Cer | Arist. | Hugo | - | - | - |
| 4.10./Tu | Arist | Arist | Callas | Callas | Nobel | | Ander. | Ander. |
| 5.10./We | Hugo. | Arist. | Arist | Rub | | - | - | - |
| 6.10./Th | Callas | Rub | Arist | Arist | | - | - | - |
| 7.10./Fr | Arist | Nobel | Arist | Rub | | | | Arist. |
| 8.10./Sa | Cer | Arist | Arist | Hugo. | | | | |
| 9.10./Su | | | | | | | | |

| L-No. | Teacher | Subject | Class(es) | Room | From | to | Stat. code(s) | Te |
|-------|---------|---------|-----------|------|------|----|---------------|----|
| 73 | Arist | HIS | 1a, 1b | SH2 | | | | |
| 73 | Rub | PEB | 1a, 1b | SH1 | | | | |

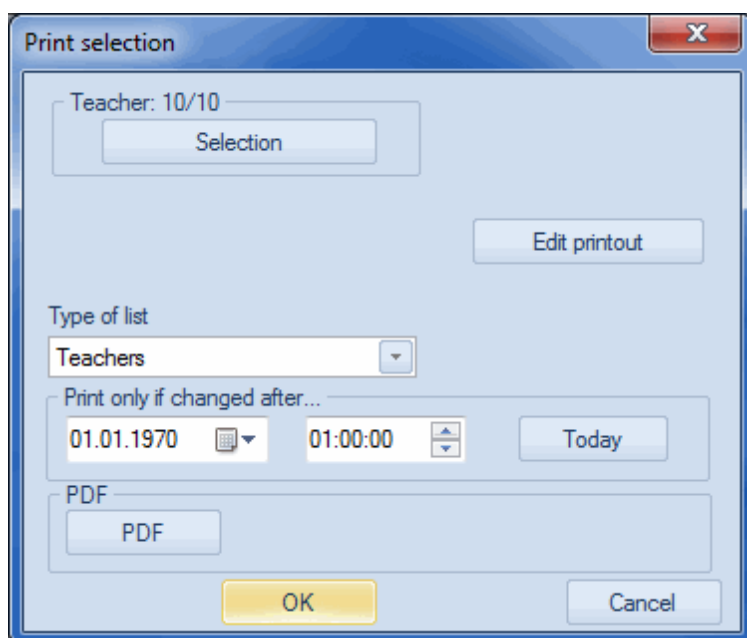
2.9 Printing substitutions

You can print substitution data either from the [Substitutions window](#) or from the Scheduling dialogue using the <Print> or <Print Preview> buttons.

Date

First select the day for which the list is to be created via the calendar.

You can make various print settings in the pprint selection window:



Selection

The Selection option allows you to restrict the output to specific classes or teachers.

Type of list

Use type of list to select whether the output should be made for teachers or classes. This determines whether the list should be sorted by teachers or by classes.

Page setup

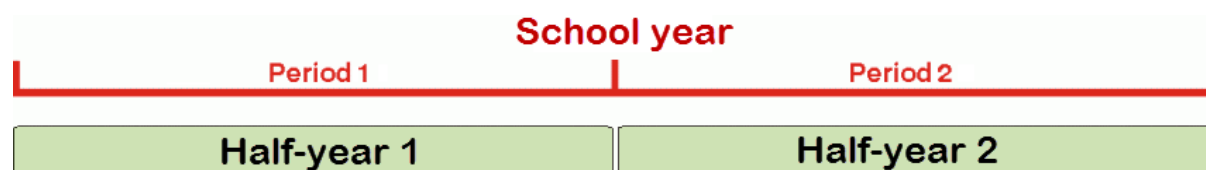
The page setup option allows you to define margins and font size.

PDF

Instead of printing the list you can also generate a pdf file.

2.10 Terms

Term timetable functions are generally used if the timetable is changed during the school year (e.g. at the end of the school half-year, when one or more teachers are absent for a considerable period etc.),



Warning: Terms only with Express Cover Planning

Working with terms is only possible with the module Express Cover Planning.

With a term timetable the school year is divided into several periods of time and a timetable can be created for each of these terms independently of each other. You could of course save each timetable in a separate file, but you would then have to accept a number of disadvantages. The term timetable offers the following advantages:

- You have a single file for the whole school year.
- Term and timetable changes can take place during the week.
- Cover planning always accesses the currently valid timetable automatically. Mistakes are impossible.

2.10.1 Opening a new Term

In principle you create your timetable at the beginning of the school year as usual. If something occurs in the course of the school year that requires a fundamental change to the timetable you can open a new term. The procedure is described below:

1. The term dialogue is accessed via the 'Multiple terms' button on the 'Start' taab. At the beginning there is only one term, which is called 'Term1' by default.
2. Click on the button <New term from 'mother' term>. A window opens where you can enter the short and the full name of the new term ('Term1' by default).
3. Enter a meaningful short and full name for the new term, e.g. 'we4', 'from week 4 onwards' and click < OK> to confirm.

Terms

Name:

☐ Locked

Term1 Full name

Fr. To School-days

| Name | Full name | From | To | Locked | Days | Mother term |
|-------|-----------|---------|---------|--------------------------|------|-------------|
| Term1 | Term1 | 19.9.16 | 30.6.17 | <input type="checkbox"/> | 245 | |

New Term

Name

Full name

4. Now change the start (From) and end (To) dates. The length of the individual terms will then be displayed in the 'Days' column. Master data, lessons and timetable can now be modified in accordance with the new conditions. By checking the 'Locked' box, past terms can be locked regarding changes.

You can also change the name of the original term 1 (here e.g. to 'start').

5. After you confirm by clicking < OK > the terms window closes

Terms

Name:

☐ Locked

starting week 4

Fr. To School-days

| Name | Full name | From | To | Locked | Days | Mother term |
|-------|-----------------|---------|---------|--------------------------|------|-------------|
| Term1 | Start | 19.9.16 | 30.6.17 | <input type="checkbox"/> | 8 | |
| We4 | starting week 4 | 28.9.16 | 30.6.17 | <input type="checkbox"/> | 237 | Term1 |

A new combo box is displayed in the menu displaying the current term and allowing you to switch terms.



6. Now switch from the term 'we4' to the term 'start'. You will see that both terms' data are completely identical.
7. Make a change to one of the terms. For example, delete the timetable from the term 'from week 4 onwards'. Now switch to the term 'start'. You will see that the timetable for the term 'start' has not been deleted.



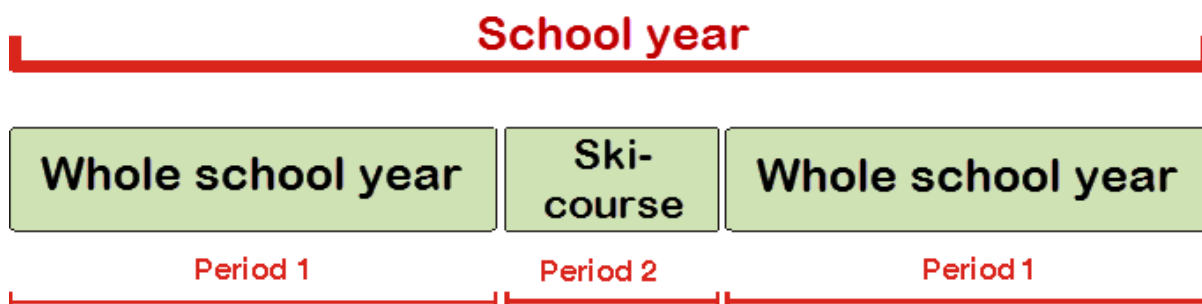
Tip: Switching terms via status bar

You can switch between terms quickly via the status bar (display status bar via "Settings | Status bar"). Simply click on one of the angled brackets enclosing the name of the current term.



2.10.2 Embedding a Term

If the timetable only changes for a certain period of time (e.g. a teacher's illness/convalescence, a school event for the majority of classes etc.) a new term can be embedded in an existing term.



Such a constellation would be displayed as follows in the term window:

Terms

Name:

☐ Locked

Full name

Fr. To School-days

| Name | Full name | From | To | Locked | Days | Mother term |
|-------------|------------------|---------|---------|--------------------------|------|-------------|
| School year | Whole school yea | 19.9.16 | 30.6.17 | <input type="checkbox"/> | 6 | |
| Ski course | Ski course | 20.2.17 | 26.2.17 | <input type="checkbox"/> | 6 | School year |

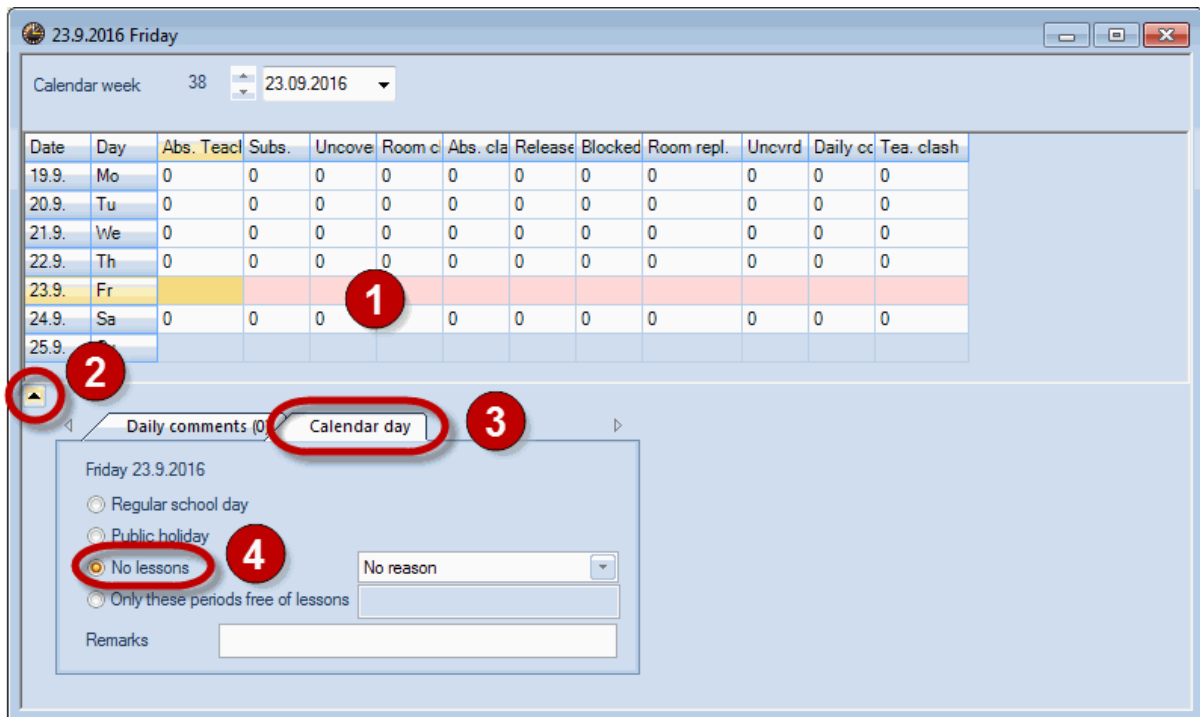
The term "Total school year" runs from September 19 through June 30 and term 2 ("Winter sports week") runs for one week from February 20 until February 26. The timetable can now be changed just for this one week without impacting the timetable for the rest of the school year.

If more than one term exists you can choose which one should be the 'mother' for the new term. If another timetable change becomes necessary during the school year, the term that is most similar to the new term is taken as the mother term. This is generally the last valid term or the term "Total school year".

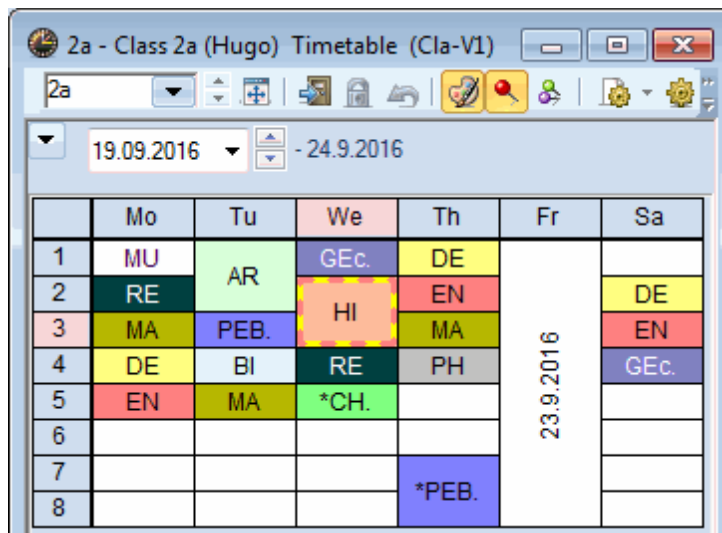
2.11 Entering holidays

In case you are using the WebUntis electronic class register with Untis Express we recommend to enter the holidays in Untis, too.

Via 'Modules | Cover Planning | Calendar' you can select a date in the [calendar](#) and check the option box 'No lessons'.



The selected day is not available for the cover planning and no data will be exported to WebUntis for this day.



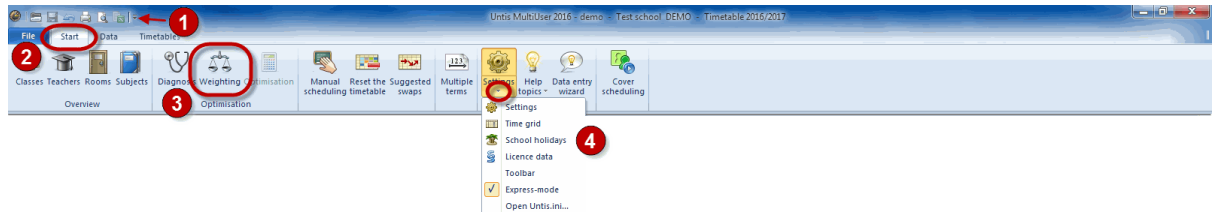
3 Settings and menu navigation

For completeness the functions of the Untis Express menu will briefly be explained in the following chapter once again.

3.1 The menu

The graphically designed user navigation contains several elements:

- quick access tool bar (1)
- tabs (2)
- buttons (3)
- and sub-menus (4)

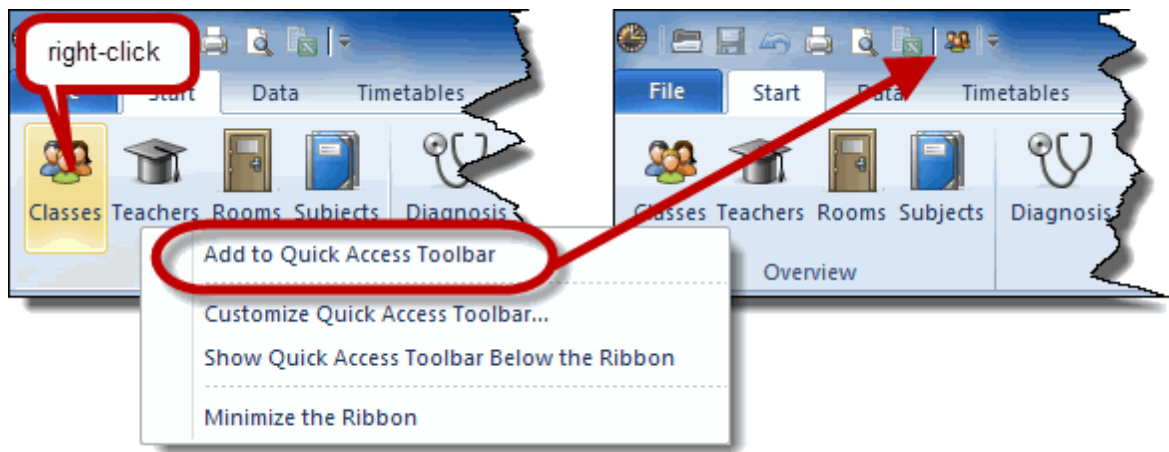


Clicking on a button opens pre-defined window arrangements containing all windows related to this topic. Clicking on an entry in a submenu, however, opens a single window.

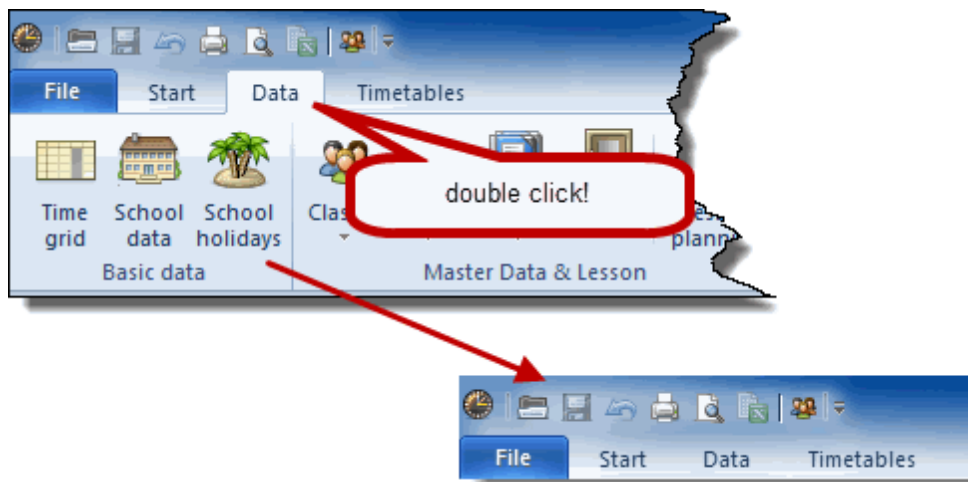
3.2 Folding the menu

Experienced users can also fold the graphic menu and use the quick access toolbar to access the most used functions.

If you want to copy a menu item to the quick access toolbar, just click the right mouse button and add it to the quick access toolbar.



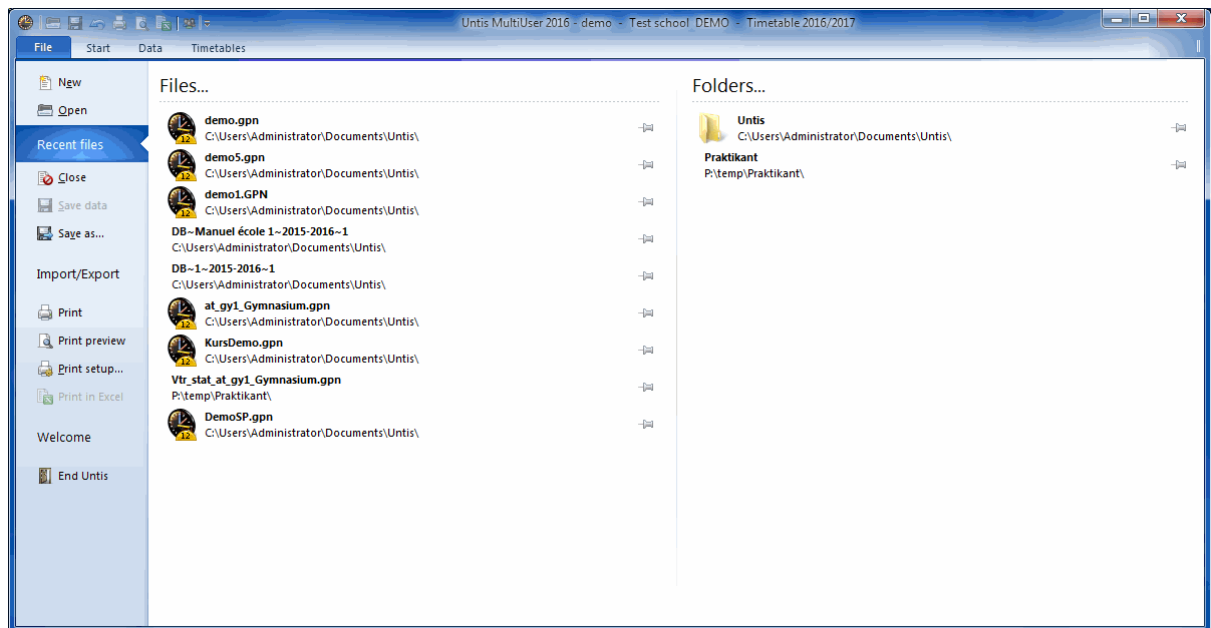
You can hide the ribbon by double-clicking on one of the tabs.



However, if you need the tab again, just click on it and it will be shown again. Double click and the ribbon will permanently be shown again.

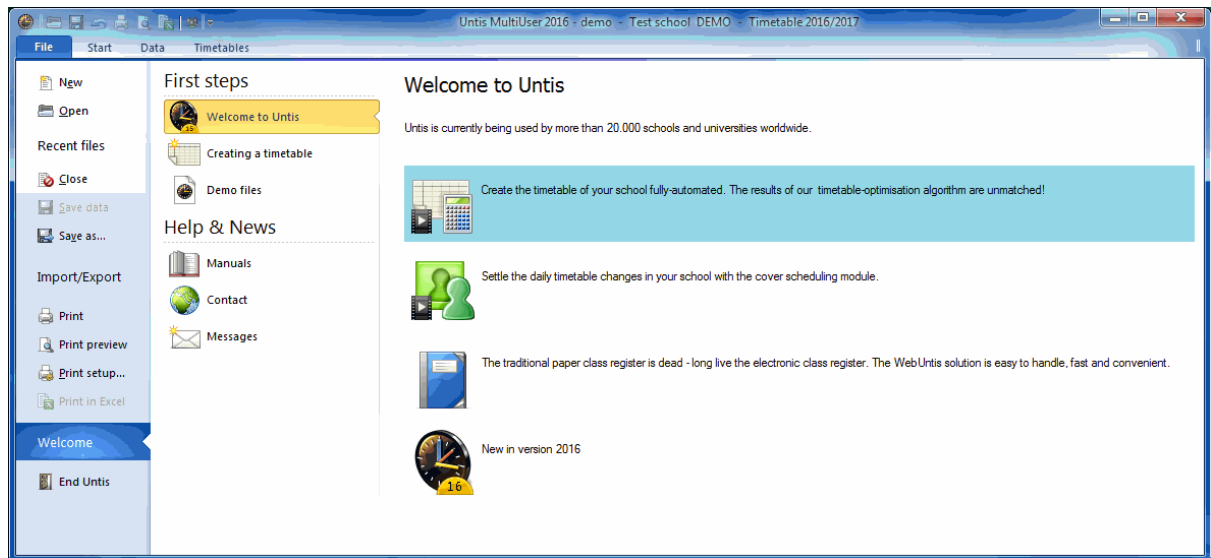
3.3 File tab

For Windows functions like 'New', 'Open', 'Save'...go to the 'File' tab.



In the list of the last opened files you can use the pin symbol next to the name to permanently fix frequently used files. The chosen file will permanently be shown in the top section and can be opened very quickly at any time.

Clicking on 'Welcome' opens the welcome screen which is opened when you use Untis for the first time.



Here you find our data entry wizard, demo files, manuals, contact details and Untis messages we send to you.

3.4 Settings

The button <Settings> on the 'Start' tab enables you to make all relevant settings in one central area. The most important ones are explained in the following section.

3.4.1 School date

In the section *School data*, *General* you can enter the start and the end date of the current school year, the country, the region and the type of school. Several (statistical) processes and calculation methods are based on the settings you define here.

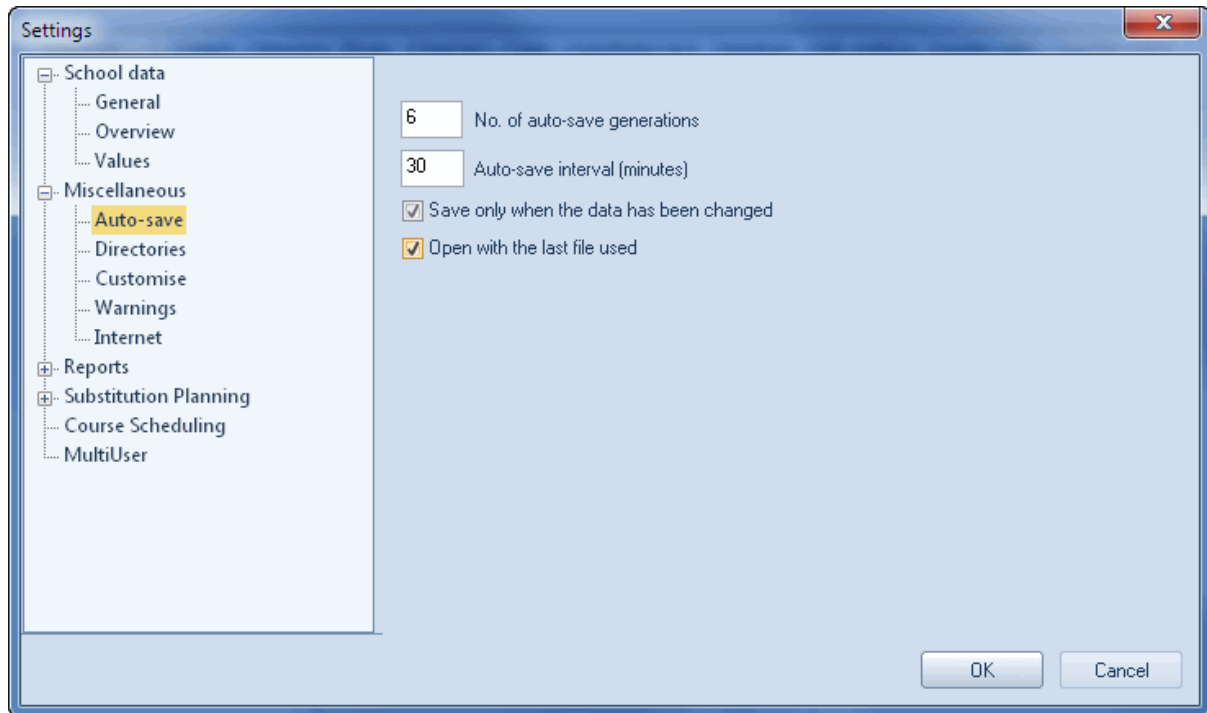
Clicking on *Overview* you will get to a list of the number of classes, teachers, rooms, subjects and lessons at your school.

3.4.2 Miscellaneous

Clicking on the 'Miscellaneous' tab you can enter or change the following settings:

Sichern

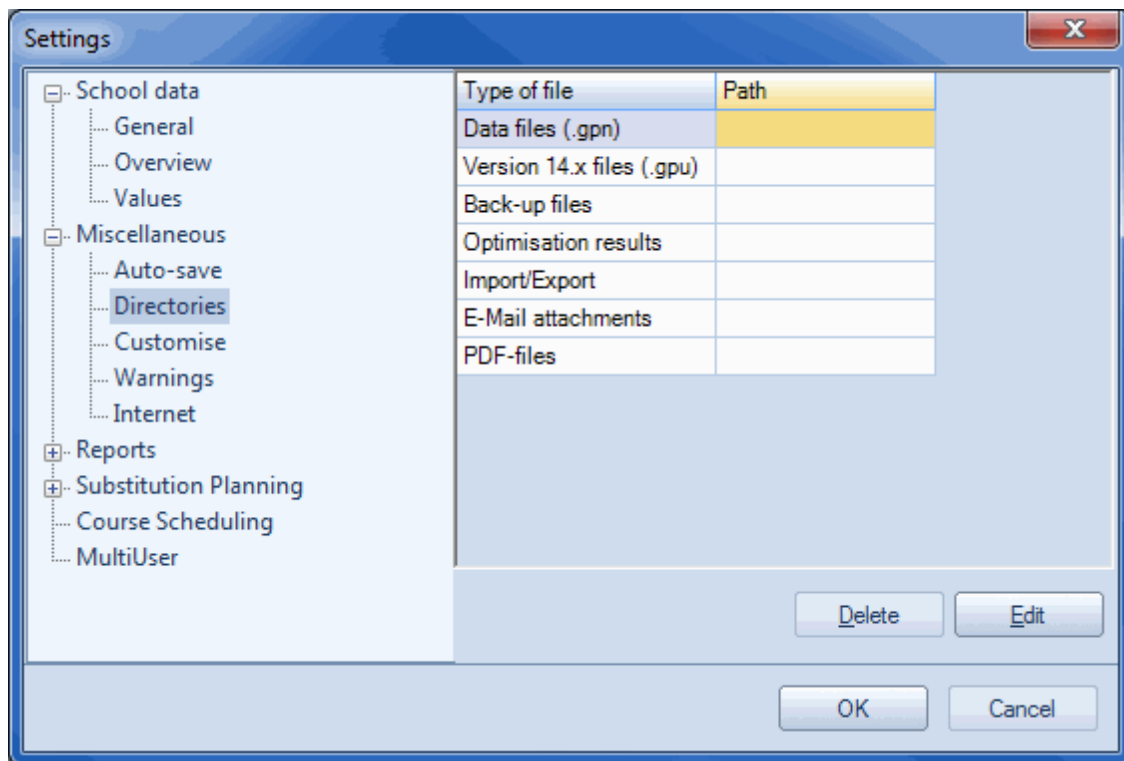
Here you can set the number of automatic save intervals and how many auto-save generations should be archived. The settings in the figure mean, for instance, that Untis saves all data every 30 minutes and should save 6 auto-save generations. These data are saved in files called Save1.gpn, Save2.gpn, Save3.gpn to Save6.gpn. The most current data are always saved in the Save1.gpn file, the relatively oldest data in the Save6.gpn file. We recommend to check the box 'Save only when the data has been changed' in order to avoid saving identical files.



When you check the box “Open with the last file used“, Untis will automatically open with the last file you used. You can avoid this by holding the >Shift> key down while the program starts.

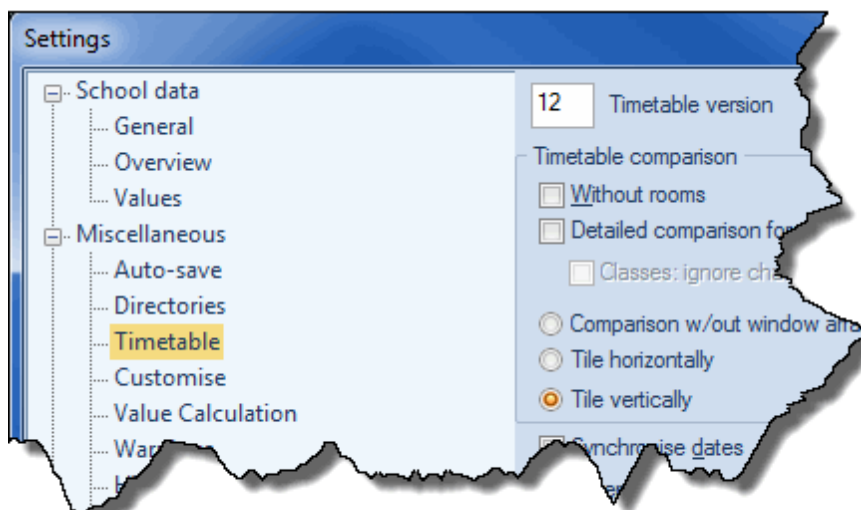
Directories

On this tab you can define different types of default paths. We recommend to create individual files for at least your back-up and optimisation files (these are the files in which all timetables of your school are saved during the optimisation process) and to enter the respective paths here. .



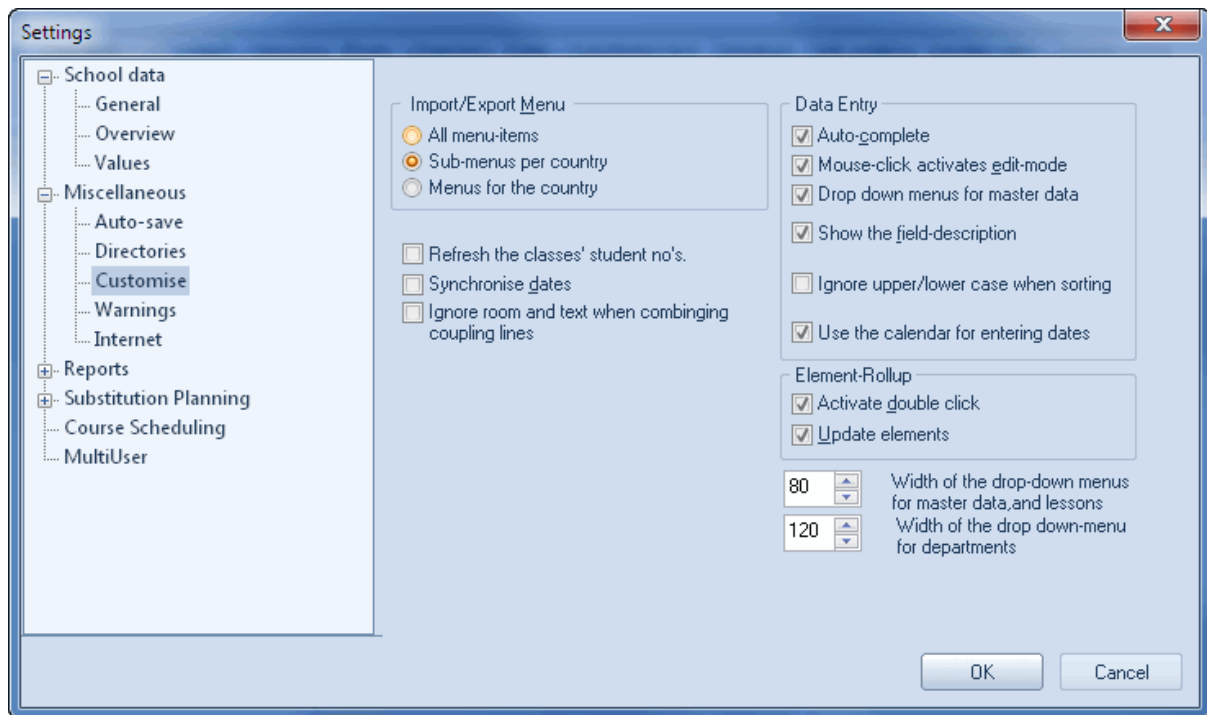
Timetable

The number of the timetable version you can choose freely and is, for example, printed on the timetable print-outs.



Customise

With the different options in this chapter you can adapt Units to your own needs

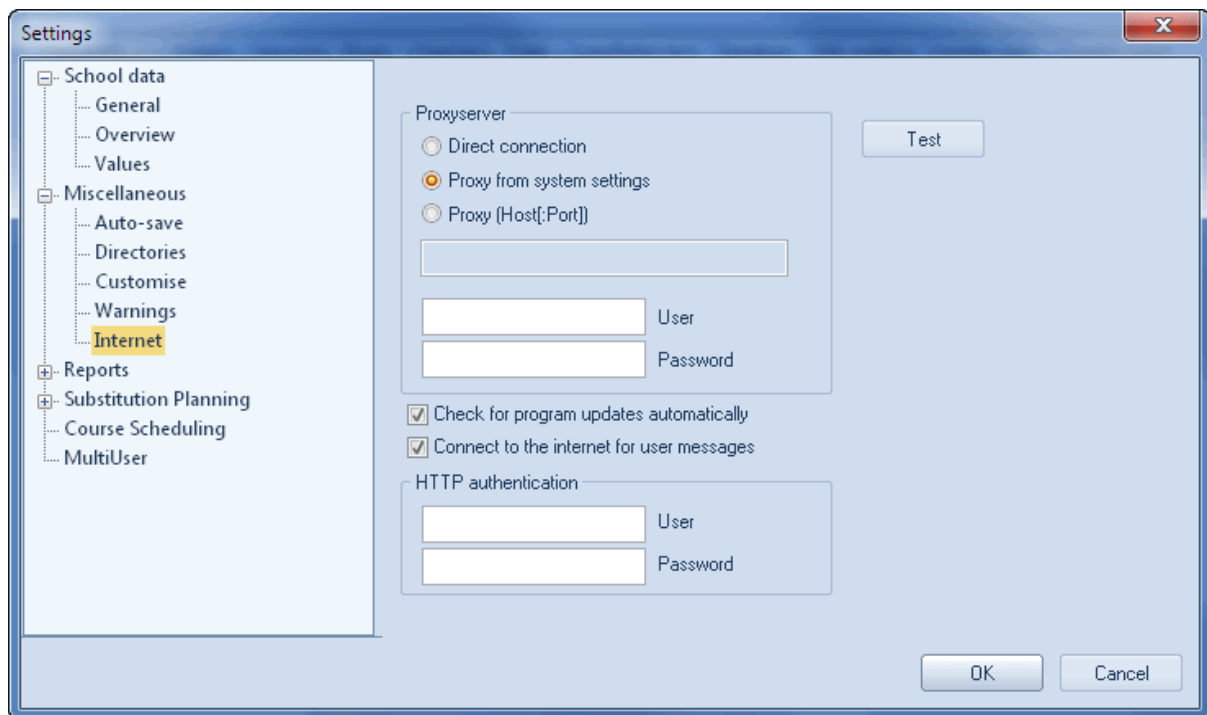


Warnings

Several warning messages can be turned off. Here you can activate and deactivate warnings.

Internet

Untis provides you with the possibility to be informed on version updates. You need to activate the option 'Automatically check the internet for programme up-dates' and you need to define how the internet should be accessed, via direct connection or via a Proxy server. If you are not sure about this setting, please ask your system administrator.

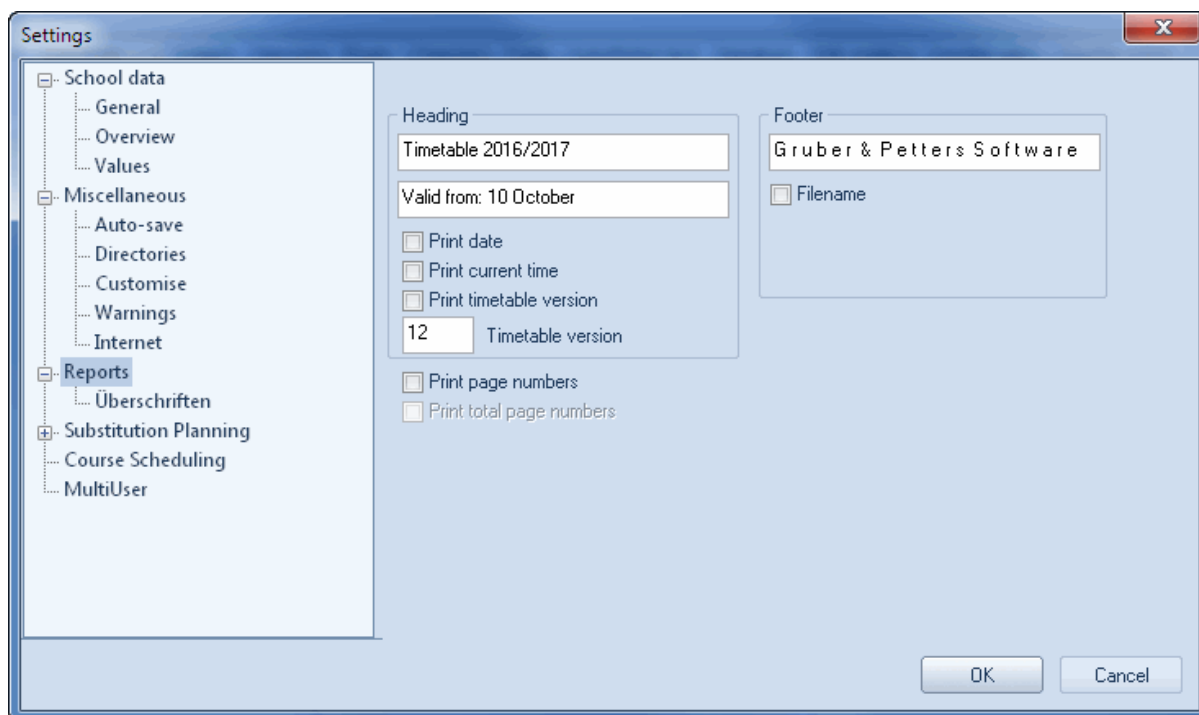


Via the <Test> button you can test, if the defined settings are correct and if Untis is connected to the Gruber&Petters web server. The following message will pop up, if Untis connected successfully.



3.4.3 Reports

The options you can define here are mainly for the headings and footers of your print outs. Please refer to chapter [Stundenplandruck](#) for further details.



Index

- C -

class 21
 absence 112
 Absence reasons 103
 Activating cover scheduling mode 101
 Actual-target 28
 Adjusting timetable size 73
 Administrator rights 6
 Allocating rooms 63
 Alternative rooms 18
 Automatic save 8
 Automatic scheduling 44
 Automatic substitution optimisation 123
 Basic data 10
 Blocking 16
 Blocks 37
 calendar 104
 Cancellation 112, 114
 Cancelling periods 128
 Class lists 91
 Classes 21
 Classes without designated rooms 20
 Colours 29
 Core times 23
 Counter 119
 Coupled lessons 32
 Cover Planning Express 98

- D -

Daily comments tab 106
 Data entry wizard 10
 Demo files 9
 Diagnosis 54
 Double periods 36

- E -

Entering absences 108
 Entering lessons 32
 Entering licence data 6
 Entries for all master data and lessons 16

- F -

Filter 42
 Fortnightly lessons 37

- H -

Header and footer 82
 Help functions 8
 HTML format 90

- I -

Ignore (i) 16
 Input with element-rollup 40
 Installation 6
 Introduction 6

- L -

Layout 30
 Lessons 31
 Lessons view toolbar 42
 Lists 90
 Lock (X) 16
 Lock this display 69
 Lock type 69
 Locking - colours 69
 Locking periods 61
 Lunch break 12

- M -

Main subject 29
 Manual scheduling 57
 Master data 14
 Master data maintenance 14
 morning and afternoon periods 11
 Moving periods 124

- N -

Non-teaching period 25

- O -

Optimisation 52
Other entries for lessons 38

- P -

Period flag 119
Period window 76
Print selection 30
printing master data 30
Printing master data and lessons 30
Printing substitutions 134
Printing timetables 80
pseudo room 20

- R -

Release 112
Respect double periods 38
Rings of alternative rooms 18
Room lists 95
Room replacement 112, 117
Room replacement - room change 131
room substitution 131
Room weighting 19
Rooms 18

- S -

Scheduling dialogue 131
School year 11
Serial change 17
Shifting 112
Simple lessons 32
Sort order 14
Special duties 112, 128
Specific time requests 27
Standard format 74
Subject allowed more than once per day (2) 38
Subject lists 96
Subjects 29
Substitute suggestion 119
Substitution 112, 115
substitutions window 112
Suggestion 119

Supervision 112, 117
Supervision suggestion 122
Swap 112
Swap suggestions 65
Swapping periods 127

- T -

Target per week 28
Teacher lists 93
Teacher swap 112
Teachers 25
Text 16
The options 22
The timetable window 68
Time grid 11, 102
Time requests for classes 22
Timetable | Overview classes 72
timetable details window 68
Timetable formats 70
Timetable interaction 69
Timetable layout 73
timetable window 68
Timetables 68
Timetables in HTML format 90
total line 31
Type of substitution 112

- U -

Unspecified blocks 27
Unspecified time requests 27

- V -

Value = 28
Values 28

- W -

Weighting 44
Weighting analysis 45
Weighting distribution 45
Weighting parameters 47
Welcome screen 8
window 42