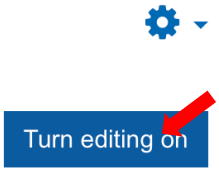
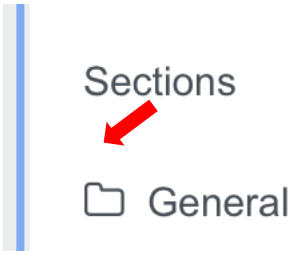
Installing MOSFECCS_v6 as a resource inside an existing Moodle course

1. Login as a teacher and go to your course.

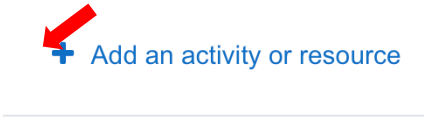
2. Turn editing on



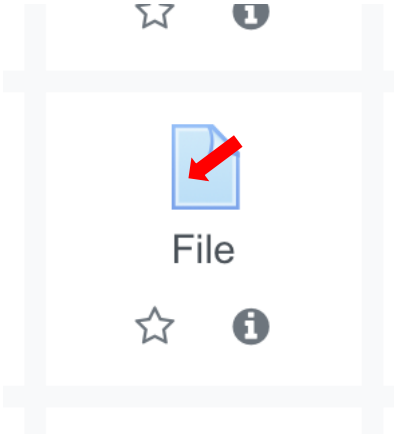
3. Go to the section, in which you want to install the link to MOSFECCS.



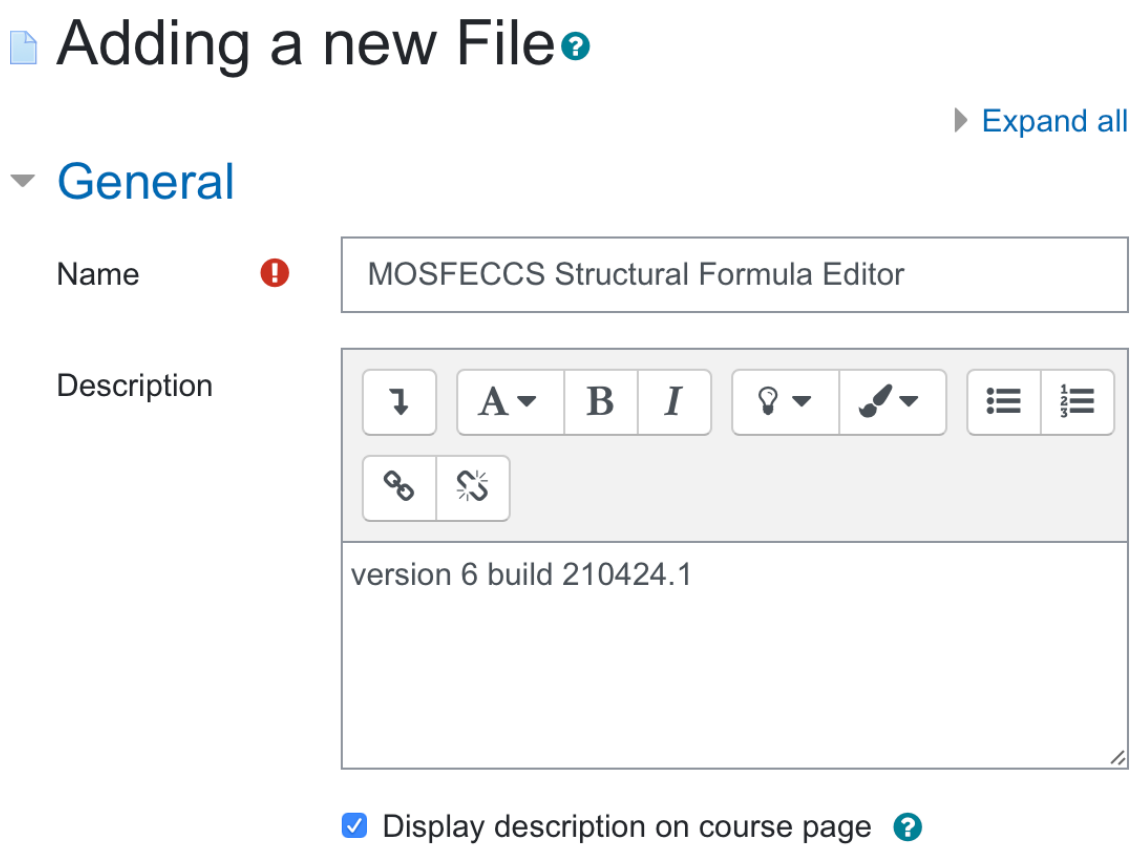
4. Go to the end of the section and click "Add an activity or resource"



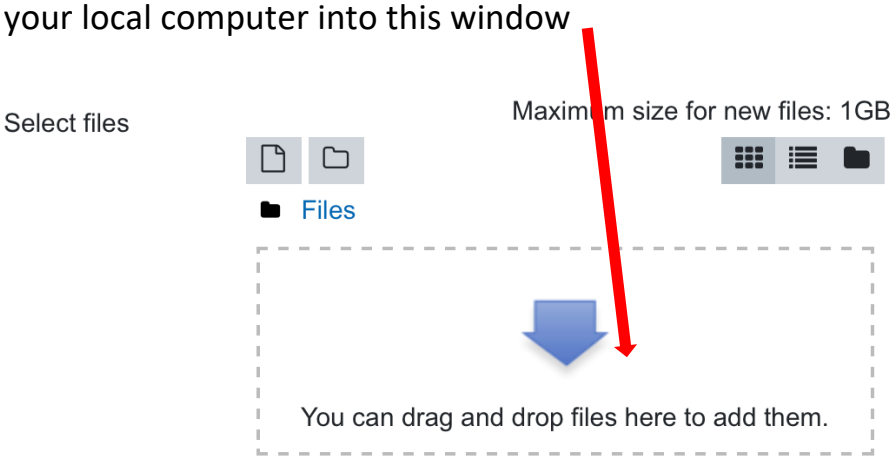
and select: File



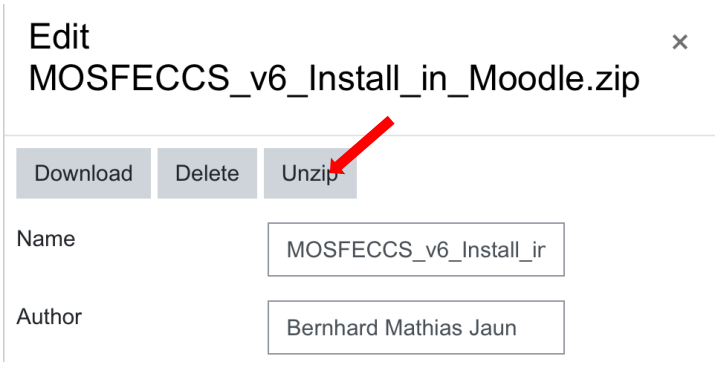
5. Fill in the name and descriptions
(choose whatever you want the students to see)



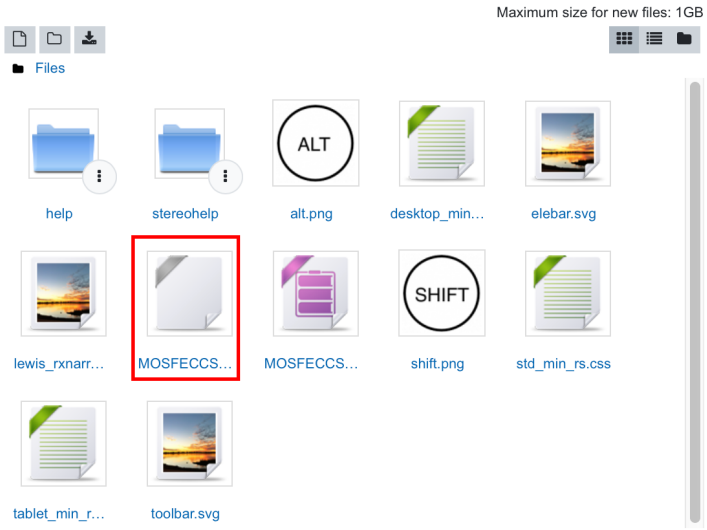
6. Drag and drop the zip file MOSFECCS_v6_Install_in_Moodle.zip from your local computer into this window

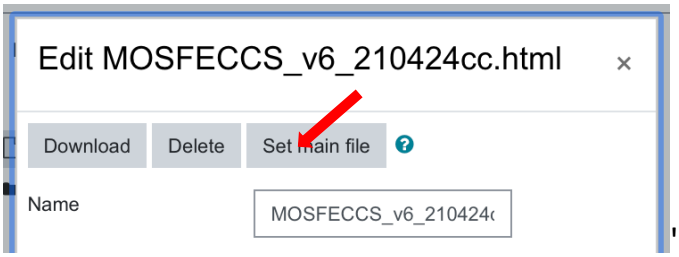


7. Click on the icon and then choose UNZIP



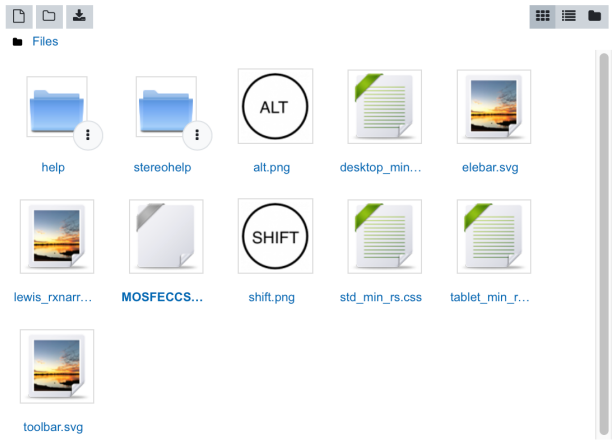
8. Select the file MOSFECCS_v6_210424cc.html and set it as main file



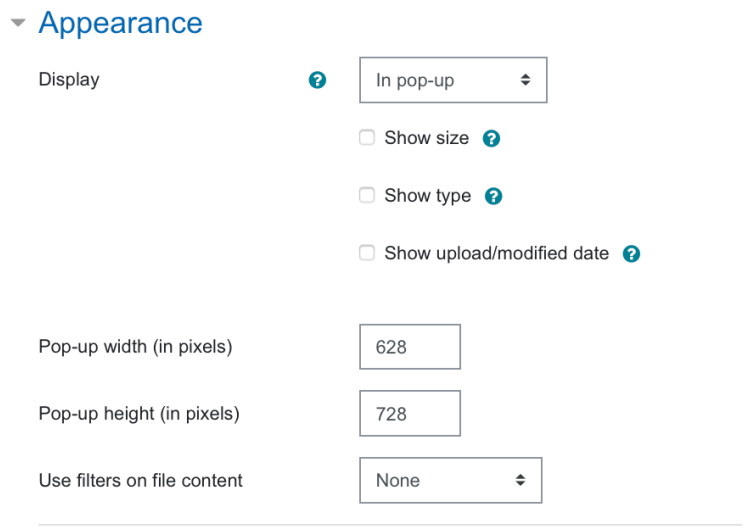


The name of the file should now appear in **BOLD**

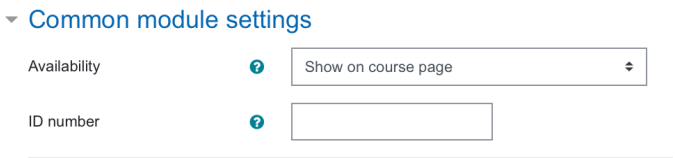
The ZIP file can now be deleted (select it and choose DELETE)



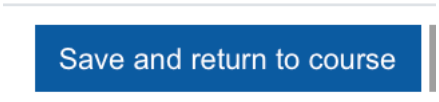
9. Set the Appearance parameters as follows

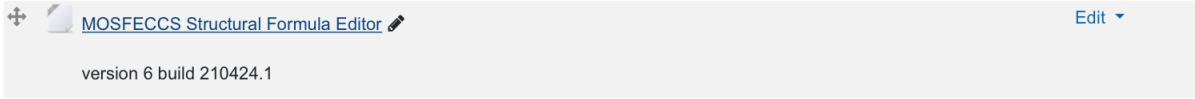


10. Set availablility to "Show on course page":



11.





12. Turn editing off

B. Calling MOSFECCS with HTML-GET-parameters:

MOSFECCS adjusts the editor's layout depending on the device.
On laptops/desktops with a keybord and operation system that supports windows, the editor will adjust to the size of the window. On touch devices such as tablets or smart phones, it will fill the available space not reserved by the OS or browser and react to orientation changes (portrait/landscape).
Automatic recognition of devices depends on the screenwidth:
Desktops/Laptops: screenwidth > 1390px
Tablets: 760px < screenwidth <= 1390px
Phones: 375px < screenwidth <= 760
For hardware, that doesn't fit into these categories, the layout of MOSFECCS can be chosen via the GET-parameter "device":

URL:
path/MOSFECCS_v6_210218cc.html
calls the standard version with automatic recognition as described above.

path/MOSFECCS_v6_210218cc.html?device=tablet
calls the tablet version for high-resolution tablets with screenwidth > 1300 (e.g. iPAD pro, Microsoft Surface Pro) and no keyboard. Because of their high resolution, they would be interpreted as dektop/laptop device otherwise.
If the HR-tablet has an attached keyboard, the desktop layout is ok, but without keyboard, the alt- and shift-key simulators (essential for drawing operations) are missing.

path/MOSFECCS_v6_210218cc.html?device=desktop
calls the desktop version for devices like Beamers with low resolution (screenwidth <1390), which would be identified as tablets otherwise.

At ETH calls for different devices are implemented by links in the toolbox:
(this way, users don't have to enter the GET-parameters into the address themselves)

- Strukturformeleditor MOSFECCS
- Strukturformeleditor MOSFECCS *HR-Tablet*
- Strukturformeleditor MOSFECCS *Desktop/Beamer*

HTML code inside the Toolbox:

```
<ul>
   <li><a onclick="window.open('https://moodle-
app2.let.ethz.ch/pluginfile.php/1062198/mod_resource/content/359/MOSFECCS_v6_210218cc.htm
l','','resizable=yes,width=628,height=728');return false;" target="_blank" href="https://moodle-
app2.let.ethz.ch/pluginfile.php/1062198/mod_resource/content/359/MOSFECCS_v6_210218cc.htm
l">Strukturformeleditor MOSFECCS<br></a></li>
   <li><a onclick="window.open('https://moodle-
app2.let.ethz.ch/pluginfile.php/1062198/mod_resource/content/359/MOSFECCS_v6_210218cc.htm
l?device=tablet','','resizable=yes,width=800,height=770');return false;" target="_blank"
href="https://moodle-
```

app2.let.ethz.ch/pluginfile.php/1062198/mod_resource/content/359/MOSFECCS_v6_210218cc.html?device=tablet">Strukturformeleditor MOSFECCS HR-Tablet
Strukturformeleditor MOSFECCSDesktop/Beamer

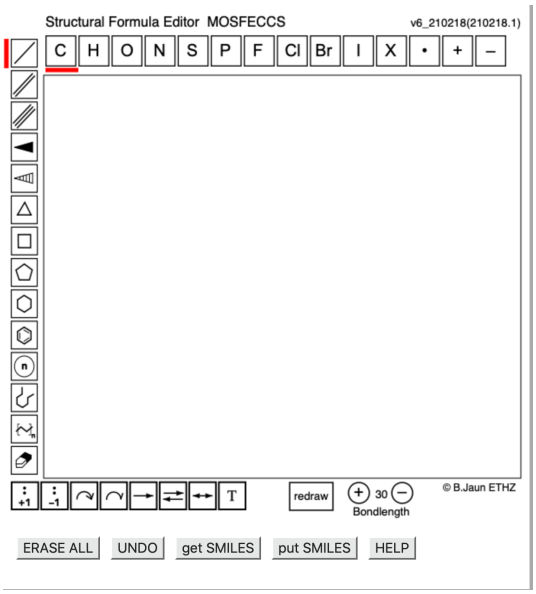
Calling a version of MOSFECCS without the tools for Lewis-Structures, curved-arrows, and reaction arrows

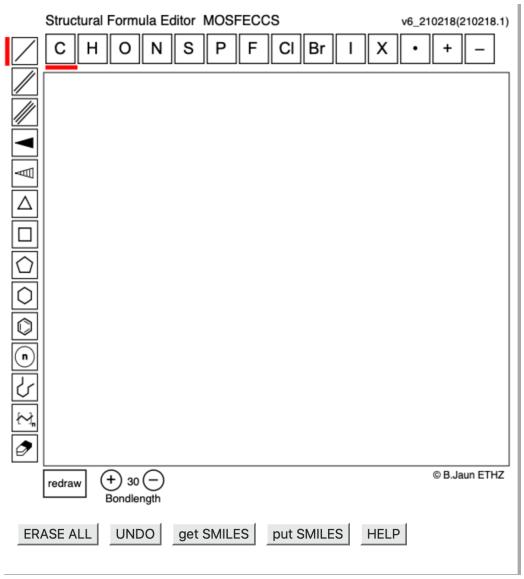
If a Moodle-course or an exam does not make use of these MOSFECCS-SMILES extensions, the editor can be called in a version without the icon-bar on the lower left side of the canvas.

GET-parameter: "arrows" values: "yes" (default) or "no"

Standard:
path/MOSFECCS_v6_210218cc.html

Without LP, arrows tools:
path/MOSFECCS_v6_210218cc.html?arrows=no





GET-parameters can be combined as usual by an ampersand:

path/MOSFECCS_v6_210218cc.html?arrows=no&device=tablet

calls MOSFECCS for HR-Tablets without the tools for LP, curved arrows und reaction arrows.

C. *Beware:* things to consider when SMILES-codes are used in Moodle quizzes

1. Conflicts between special characters in Moodle and SMILES-codes

According to the SMILES-convention, triple bonds are designated by the character "#".

Inside the Moodle "CLOZE" question type, the hash character "#" is used to mark the start of the feedback.

In preprogrammed SMILES answers inside CLOZE- SHORTANSWER" questions, triple bond-# ***must be escaped*** by a backslash.
Example: SMILES for ethine: C#C. In CLOZE questions use C\#C for the preprogrammed correct answer:
Example CLOZE question:
Draw the molecule Ethine and enter its SMILES-code {1:SHORTANSWER:=C\#C#Right!}

In normal SHORTANSWER questions, triple-bond-# do not need escaping.

2. Lower case letters in SMILES-codes

In the MOSFECCS-SMILES-convention, lower case letters are used for atoms in EMFU-rings.
To be able to distinguish between benzene (c1ccccc1) and cyclohexane (C1CCCCC1), i.e, the Moodle questions have to be case-sensitive.

For simple SHORTANSWERS, chose "Yes, case must match" in the CASE SENSITIVITY below the general feedback.
For SHORTANSWERS inside CLOZE, use the SHORTANWSER_C question type:
Example:
{1:SHORTANSWER_C:=OC(=O)CN1C=C(C(=O)c2ccccc2)c3ccccc13 }

see also: https://moodle.org/mod/forum/discuss.php?d=135425