



1.5 meter lab classes: not as hard as you think

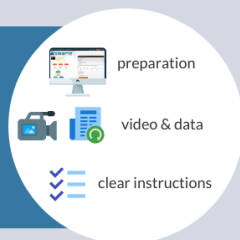
1. Dealing with limited lab time

TIME SAVER

Your laboratory hours per day may be limited. How can you ensure that your students still learn from the experiments?

1. Based on the learning outcomes, select key experiments. Replace other experiments with instructional videos and simulated results.
2. Let students prepare by designing their experiment.
3. Provide clear procedural information¹ in the lab.

By being prepared and having the right information students make less mistakes and finish their experiment in less time.



2. Dealing with multi-day experiments

SPACE SAVER

TIME SAVER



Some experiments cannot be shortened due to incubation times, sample preparation, etc. How to solve this?

1. As teachers, execute a part of the lab work for your students. Your students execute the remaining part.
2. Provide both videos and explanation of the steps that the students do not execute themselves.
3. Also provide preparation videos that do not result in a 'good' sample and allow students to choose which sample to continue with in the real lab.

3. Dealing with group work

SPACE SAVER

1.5 meter labs offer excellent opportunities to train communication and collaboration skills.

1. Group members work in the lab in succession instead of simultaneously; student #1 starts an experiment, which student #2 continues with the next day, etcetera. Keeping a laboratory notebook will really make sense² in this scenario.
2. Students could record their experiments (or key steps) and explain those to their peers.



4. Dealing with closed labs



If your educational institution has decided to keep the laboratories closed, you are not out of options:

1. You could still let students design their experiment.
2. You could record the experiment yourself (mobile phone is fine) and provide students with questions on what they see.
3. You could provide students with simulated results to both interpret and process.

We can help you out!

JOIN NOW!

We have plenty more ideas to help you out! LabBuddy offers an integrated platform to support 1.5 meter labs and lab education.

Keep checking our COVID-19 page for updates: www.labbuddy.net/covid19

Feel free to contact us! By e-mail: info@labbuddy.net, by phone: +31(0)85 303 7684



1) Van Merriënboer (2002) <https://doi.org/10.1007/BF02504993>
 2) Gallardo-Williams, M. et al (2020) <https://doi.org/10.1039/C9RP00182D>