



# Hybrid classroom

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# The quality of teaching is crucial

The quality of teaching determines what kind of learning outcomes are created. Various technical solutions can enable and / or improve the learning situation. The hybrid classroom is a great addition to hybrid teaching where participants are in classroon or on line via internet. A hybrid class is necessary when student participation in the teaching is central: Discuss in groups and do teamwork. A hybrid class is not needed when the teaching is just a lecture.



Source: What is a hybrid classroom? (catchbox.com)

## Plan first

The key is to first plan where and how the hybrid class is to be used in teaching. It is worth assembling a team of experts for the design: digipeda designer, IT expert, teacher. The expertise of equipment suppliers can also be used in the design: Identify the necessary equipment and make invitations to tender to suppliers.

In planning, it is important to consider how the plan will be implemented: Who will train the teachers to use the hybrid class, who will prepare the guidelines, and how maintenance will be organized.

#### Necessary equipment

The following list summarizes the equipment of the Savonia hybrid class as an example. The products do not have to be the same as long as their compatibility is ensured. For example, the screen and projector can be replaced with a large screen depending on the class mode.

- computer with touch screen (eg. Wacom) <u>https://www.wacom.com/en-us/products/pen-displays/wacom-cintiq-pro-overview</u>
- data projector (1-2 pcs., depending on the width of the classroom). I recommend a laser projector e.g. Nec, <u>https://www.nec-display.com/ap/en\_projector/lineup.html</u>
- speakers at the front of the classroom e.g. Genelec, <u>https://www.genelec.com/</u>
- ceiling microphone (eg. Shure) <u>https://www.shure.com/en-US/products/microphones/mxa910</u>
- classroom camera, eg. for zoom us e.g. Logitech, https://www.logitech.com/fi-fi/conference-cam
- perhaps a documentary camera if the teacher wants to draw on paper and the image is shown to students in distance learning --> e.g. Qomo, <u>https://qomo.com/products/document-</u> <u>cameras/centercam-3900h1/</u>
- a large screen or data projector at the back of the classroom from which the teacher can watch the video of the remote participants --> Full HD tv over 55"



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Source: Crossing borders with the hybrid virtual classroom | Media & Education (media-and-education.nl)

#### Server requirements

The hybrid class does not impose any special requirements on the server. In practice, it is about connecting one computer to a network. What is crucial is an internet connection that enables a high-quality remote connection.

#### Introduction of the Hybrid Classroom

In the deployment phase, teachers are provided with Hybrid Classroom user training: The basics are introduced in general training and implementation is practiced in small groups. Make clear pictorial instructions since the computer was turned on

## Other things to consider about using the hybrid class

Hybrid teaching poses more challenges for the teacher, because in addition to teaching, technology must also be mastered more than before. In addition, there are considerations for accessibility. Byod also sets its own technical challenges. In order for the teaching situation to be smooth, the use of the hybrid class must be practiced in advance. The teaching situation should also be planned in such a way that the opportunities of the hybrid class are utilized. You don't need a hybrid class just for lecturing!

#### More about the Hybrid Classroom

- An example of <u>Hybrid Learning Classroom Set Up</u> in YouTube (3 min)
- <u>Catchbox: What is a hybrid classroom?</u>