



Before the lecture

Test the connection once

Connection → Check reachability, scan the QR code. If nothing arrives, set up a hotspot — beforehand, in an empty room.

Assemble the playlist

For the semester: Playlists → Take over topic, strike the surplus. Otherwise pick questions one by one.

Choose the join mode

Anonymous for sensitive questions, pseudonym links the answers, named: course from the playlist properties; anyone not on the list joins as a guest ("Allow guests").

Prepare the projector

Switch on the projector toggle at the bottom of the sidebar, projector window onto the projector, cockpit on the laptop.

Use the samples

Settings → Samples: courses, topics and sessions to try out — in German or English, never both.

Create questions with AI

Topics & Questions → AI: upload your script with the structure description, paste the answer. Proofreading stays yours.

The eleven question types

Multiple choice	one correct: the classic choice question
Multiple choice	several correct: exact combination only
Open question	free text; arrives in the cockpit, selected answers can go to the projector
Poll	opinion picture; Poll+ allows several ticks
Numeric	value with tolerance ± and unit
Estimate	shows the group mean
Ordering	sort; partial hits become visible
Matching	assign terms to categories
Fill-in-the-gaps	gaps in the text — a word or a number
Info notice	note with link/email; button feedback

During the session

Space bar	open a question · again: close it
R	reveal the question (show the correct answer)
Z	spin the random wheel
← →	step through the questions

Playlist states: ○ queued · ● open · 🔒 closed · ✓ revealed

+1 min extends the deadline · **To zero** ends it right away · **Instant question** slips one in · **Look back** shows an earlier one on the projector only

End discussion only clears the wall · **Pause** stops all clocks, then resumes right there · **Presenting** closes what is open, clocks stop

Groups & stations: Controls "Participants" → Create groups → choose the group form → Start round 1 (A, B) or Round 1 + stations (C/D) — step by step on page 2

When something goes wrong

Nobody can join	Campus Wi-Fi shields devices. Set up a hotspot.
Individual devices fail	VPN off. On the right Wi-Fi?
The firewall asks	"Allow". On Windows, network type "Private".
QR not recognized	Type the address below the code.
Only 6 participants	Trial version — activate a license.
A connection drops	Do nothing — the page reconnects.

Peer instruction in five steps

Have the question answered individually · look at the distribution: 30–70 % correct is ideal, above 70 % reveal briefly, below 30 % explain again · let them discuss for two or three minutes ("Find someone with a different answer") · ask the same question again · compare both rounds. Enable it per question in the : menu "More actions" → "Turn on peer instruction" (red ♡2).

After class

Every ended session appears under Analytics: per question answer distribution, difficulty, discrimination and response times — as CSV or print. The statistics tabs show maturity per topic, planned against actual times and question quality across all sessions. Low discrimination means the strong ones fall for it — the question is ambiguous, not the group ignorant. The playlist shows behind every question how well it went last and how long it took; at the start, "Poorly answered" picks the weak ones.

Three questions that always work

To open

One anonymous question on last week's material, within the first three minutes. You learn what you can build on — and the room turns active before you talk.

In the middle

An estimation question before the derivation: "Roughly how large?" The spread of the estimates says more than the mean and motivates the calculation.

To close

One open question: "What was least clear today?", limited to 120 characters, anonymous. The answers arrive while people pack — and open the next session.



Preparation in the playlist

Form a question block

Mark questions of one section (Cmd/Ctrl click, range with Shift click) → layers icon "Group selection into a question block" → name, optional work assignment. The block goes to the participants as a whole: opened together, freely navigable, closed together. Change it via the : menu "Question block & preamble".

Turn on peer instruction

Select the question → : menu "More actions" → "Turn on peer instruction" (red 2 next to the question type); single or multiple choice outside a block only. In the session R1 is only closed, never revealed — the projector shows the discussion slide until you open R2; revealing R2 shows both distributions.

Add gray entries later

Whatever was not started appears gray. "List with plus" on a section or block adds it to the running session without opening anything. A block already played shows "Repeat": appends it as "... · run 2" with its own state and its own answers.

Groups and rounds

Prerequisite: joining with a pseudonym or name; groups are created during the running session.

1. **"Create groups"** (controls on the right, section Participants): number of groups or group size, optionally several rounds, **"Compute plan"** (printable).
2. **Connected / Course list**: only those signed in, or the whole course list — with Course list the plan is ready before the lesson, latecomers land in their group automatically.
3. A **round** is a group composition, not a work step; **"Next round"** reshuffles. Later sessions take into account who has already worked together.
4. Choose group form A, B or C/D. **"Start round 1"** (A, B) makes the assignment binding (banner, board on the projector), opens no question; **"Round 1 + stations"** (C/D) goes to the assignment board.
5. Submissions count per group, the last one counts ("2 / 3 sent"). Move individuals via their : menu; **"End group phase"** counts per person again.

A · Same tasks for all groups

Playlist: single questions or one block.

1. "Create groups" → "Compute plan" → **"Start round 1"**.
2. Open the question with the **space bar**; the timer shows the thinking time but closes nothing by itself.
3. Close, reveal with **R**. The compare icon (opposing arrows) puts all group answers side by side; **Z** draws who presents.
4. New composition: "Next round"; at the end **"End group phase"**.

"Everyone with everyone" across the semester: in every session Course list, group size, compute **one** round.

Between questions — rule of thumb

End discussion: short transition between two questions — only clears the wall, clocks keep running · **Presenting**: longer question-free stretch — closes what is open, clocks stop · **Pause**: the running question afterwards continues exactly where it stood.

Playlist states

- ◯ **gray** queued — not asked yet
- **petrol** open — answers are accepted
- 🔒 **yellow** closed — not yet revealed
- ✓ **green** revealed — the solution was shown

Yellow background: comes next · **red outline**: currently running · **grayed out**: not in the session — add with "list with plus".

B · Different tasks per group

Playlist: one block with a scenario; as many subquestions as groups (or a multiple).

1. "Create groups": number according to the subquestions, "Compute plan".
2. Choose form **B**, choose the block, assign each subquestion to a group.
3. **"Start round 1"**, open the block — each group sees the scenario and only its own tasks.
4. Close the block; **R** debriefs subquestion by subquestion, the compare icon shows the responsible group's answer.
5. **"End group phase"** — or "Repeat" with swapped assignments.

C · Stations mode with one composition

Playlist: one question block per station with a scenario, side by side in the same section; duration on the subquestions; start the whole section.

1. "Create groups": as many groups as stations (or a multiple), "Compute plan".
2. Choose form **C/D**, **"Round 1 + stations"**: **assignment board** — each group pre-assigned to a station, changeable; several groups may pick the same one, "— none —" lets a group sit out.
3. **"Open stations"** (timer if needed). Each group sees only its own block; cockpit: check marks per station, projector: station board.
4. **"Close stations"** (main button or space bar) ends it for everyone. **R** debriefs subquestion by subquestion, moving on automatically at the end of a station.
5. **"End group phase"** — or swapping (below) or a new composition (D).

More groups than stations: several groups pick the same station.

Swapping: every group at every station (C)

1. One round stays. After the run **"Close stations"**, **do not reveal** — otherwise the next group already knows the solution.
2. **"Open stations"**, move the assignment one station on (group 1 → station 2 ...), open.
3. Repeat until every group has had every station; only then debrief — every subquestion shows all group answers side by side.
4. Separate runs in the tree and in the analytics: append via **"Repeat"** as "... · run 2" beforehand and assign those.

D · Stations mode with new composition

Playlist like C; when using "Create groups", plan as many rounds as runs.

1. First run like C — do not reveal.
2. **"Next round"**: new assignment on devices and projector.
3. **"Open stations"**: board with the pre-assignment shifted by one station — adjust, open.
4. Debrief after the last run, **"End group phase"**. Earlier submissions stay with their groups.

After the group lesson

Under Analytics every answer carries its group; runs appended via "Repeat" stand separately below the first. Questions with group answers stay out of the response rate. The next session prefers pairing people who have not yet worked together.