

Roadmap to

Using a tablet for your lectures

Giving lectures using a blackboard has many benefits, some of which transfer seamlessly to using a tablet. Tablets also offer other advantages. We will focus on three key points:

1.

Clarity and controlled pace.



2.

Problem-solving process.



3.

Interactivity.



Efficiently using a tablet for giving your lectures

I. Clarity and controlled pace

Present ideas clearly and at an adjustable speed for better comprehension.

Features to focus on

Basic configuration

Make the most of tablets for teaching, whether using larger or shorter developments of explanations:

1. **Shorter development** with apps that highlight one slide at a time (e.g., [GoodNotes](#), [OneNote](#)), ensuring a clear and structured delivery.
2. **Larger development** with apps that further allow students to view multiple sections beyond what's actively being discussed (e.g., [GoodNotes](#) with an [automatic Backup](#) into a Drive, as explained [here](#) and [here](#), [OneNote with sharing option](#), [Whiteboard](#) of [Zoom](#)).

In both cases, tablets help you:

- **Correct mistakes effortlessly** using undo and redo, avoiding messy cross-outs.
- **Share content seamlessly**, including lecture notes, drawings, and recorded sessions, so students can review materials after class.

Advanced configuration

- **Enhance the visuals** using tablet tools on top of the handwriting app to create clean, professional, and colorful diagrams or charts.
- **Zoom and highlight** into specific parts of diagrams or notes to focus attention.
- **Share your enhanced content** such as live transcription, captions, or translation to support diverse learners.

Features common to blackboard:

- Neat Handwriting
- Clear Voice & Language
- Pace allowing time for understanding and note-taking



Additional resources:

- [Hardware essentials to use a tablet on campus.](#)
- [Some good practices on teaching with a tablet.](#)
- [Using the tablet to handwrite and anotate.](#)

II. Problem-solving process

Step-by-step thinking processes can be precisely illustrated, aiding deeper understanding.

Features to focus on

Basic configuration

- **Sketch dynamic diagrams in real time** by using interactive visuals or flowcharts to map out the solution process clearly and intuitively.
- **Compare approaches seamlessly** by overlaying different examples using copy-and-paste tools to highlight alternative solutions on the same screen.
- **Enhance clarity efficiently** by using editing and emphasizing tools (such as the laser pointer in [GoodNotes](#)) to stress key information and reorganize steps without unnecessary delays.

Advanced configuration

- **Access online resources effortlessly**, such as information information and videos in the web to enrich your teaching and provide deeper insights.
- **Illustrate dynamic processes effectively** by incorporating animated explanations to visualize concepts like graph transformations or iterative methods.

Features common to blackboard:

- **Model your problem-solving process**, by starting with a clear problem statement and break it down into manageable steps, demonstrating structured reasoning.
- **Visualize and refine your thinking**, by connecting concepts to relevant theories, illustrating key ideas with diagrams, highlighting common mistakes, and reviewing the final solution for accuracy.



III. Interactivity

Dynamic engagement by incorporating student input directly into lessons.

Features to focus on

Basic configuration

- Use **interactive tools** such as **live voting** or **polling** to gather opinions or check comprehension in real-time (e.g., [EchoPoll](#)).
- Use **dynamic annotations** by writing directly on digital content (slides, diagrams, or images) to clarify concepts interactively, to respond to students' input.

Advanced configuration

- Allow students to **annotate**, **input values**, or **participate** in shared tasks during parts of the lecture.
- Integrate **videos**, **animations**, or **simulations** that students can also access to play with, using DGS like [Geogebra](#).

Features common to blackboard:

- Encourage students to ask questions, participate in discussions, or brainstorm solutions.
- Incorporate exercises, quizzes, or quick tasks to apply concepts immediately.
- Facilitate team-based tasks or debates to encourage peer-to-peer learning.



Additional resources:

- Some examples of [javascript applets with animations](#).