Science:

**Scientific Goal**

Students solve a problem by planning, performing and documenting an experiment.

- Effects of the surface-to-volume ratio on the evaporation of liquids
- Acid protective effect of toothpaste

**Tool Design**

The tool (interactive presentation) helps students to assess how well they can follow experimental steps:

- Propose a hypothesis
- Consider various experimental approaches
- Plan an experiment
- Observe
- Evaluate the results
- Draw a conclusion on hypothesis
- Draw a diagram

**Assessment card/slide**

"Good to know" and Definition card/slide

- GTA (good to know)
- Definition

Mathematics:

**Aim**

Develop a digital tool that allows students to become assessors:

- Active involvement of students is key aspect of formative assessment.
- Investigating their (mis-)conceptions helps students to:
  - Gain sensitivity for their strengths and weaknesses.
  - Use metacognitive strategies.
  - Accept responsibility for their own learning processes.

**Tool Design**

Hyperlink structure:

- Test
- Check
- Practice
- Practice 5
- Explain

**References**