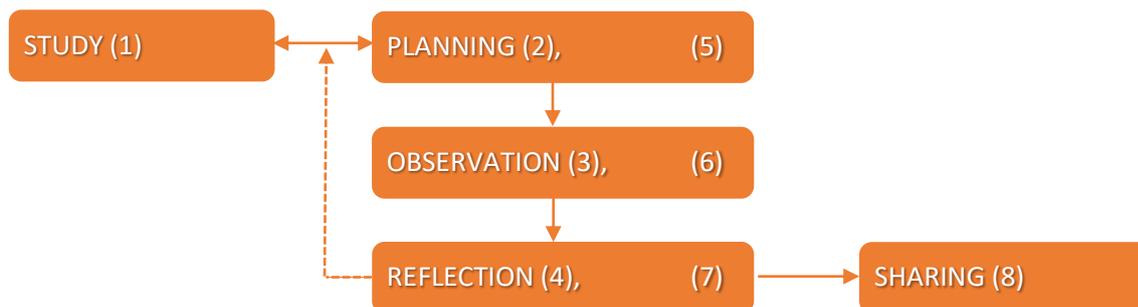


Design heuristics in TIME²

TIME² is the second part of the project and it is dedicated to the design principles for materials adapted to inquiry-based mathematics teaching (IBMT). In January 2021 a first draft of the TIME² Compendium for IBMT-Design saw the light. The team has been working hard to develop a booklet that will serve as inspiration and background reading for the TIME² IBMT-design workshop. This workshop was piloted in the Netherlands in February – and a second meeting planned for early March.



The Compendium consists of three chapters: Shaping the design process, Analysis of design and Design for IBMT. The first chapter describes design as part of study and planning phases of the Lesson Study cycle, the second discusses the mathematical and didactical analysis of the lesson, while the last chapter provides concrete design principles.



The first meeting of the Dutch workshop was based on the first half of the booklet, that focusses on the Study phase of Lesson Study. Teachers began the workshop by comparing several lesson designs on the subject that they had in mind for their own next design. They pondered on the choices that the designers had made, and how they would maybe choose to do the same or differently.

Next, they were introduced to elements of mathematical and didactical analysis. They performed parts of such analysis for the case of the intended subject. Afterwards the participating teachers said that they appreciated how the course invited them to slow down for a moment and think more thoroughly on the foundation for their choices. Normal ways of working would begin from a nice, new idea of one teacher and rush from there. Now, they thought more about what problems students actually experience, what can be said about the various mathematical and didactical aspects of the subject and go from there. In the upcoming time the team will pilot the other part of the workshop, at the same time testing the applicability of the compendium. We're excited to see the result, and work on the improvements.

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