

## 5 sketchometry teaching modules and the “think – pair – share”-method

The aim of this approach is a combination of active, independent work phases of the students (guided by assignments to construct, explore, document, and discuss) and a presentation and results assurance phase moderated by the teacher.

### Think-Phase

First, the students work independently on the worksheet. They work on the respective construction task and then carry out the investigation tasks. At the same time, they write down their observations and assumptions on the result sheet. The teacher provides help for self-help if necessary or on request.

### Pair-Phase

The students compare their results with those of their neighbors or within their learning group. If necessary, they supplement their notes. The teacher observes the individual learning groups and is available for advice (help for self-help). In doing so, the teacher finds out which assumptions or solutions are produced and thus gains an overview of the results achieved.

### Share-Phase

The results are discussed with the whole class. This can be done based on a completed result sheet of a learning group. In this more teacher-centered phase, the teacher guides the discussion, corrects – if necessary – the results presented and makes any additions that may be necessary. New terms can also be introduced in this phase.

### Securing the results

Together with the students, a sample result sheet can be created, which is then made available to the whole class, electronically or as a printout.

This approach is recommended rather than a result sheet prepared by the teacher. Otherwise, there is a risk that the students will not contribute enough themselves, as they know that they will ultimately receive a finished result sheet from the teacher.