

## Learning study research and classroom development hand in hand

The point of departure of this project is that the entanglement of what teachers do, how students learn, and theory about teaching and learning, is crucial for attempts to improve learning. The primary focus is on an object of learning, not on teaching methods. Our aim is threefold; to improve pupils' learning, teachers' learning and researchers' learning. The method used in the study is inspired of lesson study and design study. A further development of these is called the learning study. A learning study aims to build innovative learning environments and to conduct research into innovations in theory. It also aims to pool the valuable experience of teachers, while maintaining focus on an object of learning, not teaching methods. The execution of the learning study is flexible. A theory must be associated with the learning study approach. We have chosen to use a theory of variation, which focuses on the distinction between an enacted object of learning and lived object of learning. To make learning take place, a way of understanding an object can be defined in terms of critical features that must be discerned and focused on simultaneously. An individual must experience variation in order to discern a particular feature. To develop a certain way of seeing something, the pattern of variation they must necessarily experience has to be constituted.