



University of Groningen

"How does it work?" A longitudinal microgenetic study on the development of young children's understanding of scientific concepts

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PROPOSITIONS (Stellingen behorend bij het proefschrift)

"How does it Work?" A longitudinal microgenetic study on the development of young children's understanding of scientific concepts

- 1. Understanding is a complex process of what a person constructs in interaction with not just within- a specific material and social environment (dit proefschrift).
- 2. Talent entails a process that is emergenic, epigenetic and dynamic, making it hard to predict when it becomes observable (dit proefschrift).
- 3. In a context of scaffolding, teachers and researchers can optimally estimate the bandwidth of what a student knows about a particular subject (dit proefschrift).
- There is no single ideal form of scaffolding. There only exists an ideal form of scaffolding at a specific moment in time, for a specific teacher-student pair (dit proefschrift).
- 5. The common finding that special needs students score lower on standardized tests does not accurately reflect their potential (dit proefschrift).
- 6. The most important variables to characterize the long-term development of understanding are the product of interactions between the child and his or her proximal environment (dit proefschrift).
- 7. Test scores are not the objective context-independent measures of students' understanding they are claimed to be (dit proefschrift).
- 8. If schooling starts to resemble test training, it becomes questionable whether the students and society in general will benefit from this (dit proefschrift).
- Studies aimed to generalize from large samples to the population are overvalued in the social sciences as being the only source of scientific development (Flyvbjerg, 2006).
- 10. De beste stelling is figuurlijk en wordt om een kind geplaatst.

Steffie van der Steen Groningen, 8 mei 2014

