



Students' Learning Experiences When Using a Dynamic Geometry Software

By Dejene Girma Denbel

LAP Lambert Academic Publishing Mrz 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x3 mm. This item is printed on demand - Print on Demand Neuware - Students learning experiences were investigated in geometry lesson when using Dynamic Geometry Software (DGS) tool in geometry learning in 25 Ethiopian secondary students. The research data were drawn from the used worksheets, classroom observations, results of pre- and post-test, a questionnaire and interview responses. I used GeoGebra as a DGS tool with research questions relating to the aspects of (1) motivation, (2) interactions and discussions, (3) student-centered learning, (4) conceptual understanding, and (5) Problem _solving strategies. The questions were embedded in an instructional research intervention. The intervention comprised the use of worksheets and applets I developed through GeoGebra. The results showed that the use of a DGS tool with the presence of other factors, such as group work and the use of worksheets brought about certain changes in students 'learning experiences' of the geometrical concepts. Students were well motivated, but discussion and interaction were limited (due to time limitations) and results on students 'conceptual understanding' and problem-solving strategies were only partly satisfactory, but improved during the intervention. 52 pp. Englisch.



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