

Hanan Mohamed Abdelrahman



Hanan Mohamed AbdelRahman is mathematics teacher at Lofsrud ungdomsskole in Oslo. She teaches lower-secondary school and received the Holmboe Prize in mathematics teaching in 2017. See

http://holmboeprisen.no/arkiv/2017_holmboeprisen.html

Plenary talk

The use of GeoGebra with migrant students

The number of students coming from different backgrounds and speaking different languages at home with their parents at my school may seem like a challenge that is hard to undertake. However, in my School, we did take that challenge and transformed it into a source of inspiration that pushes our work further. This challenge encouraged the 10 teachers in the math section in my school to continuously try to find new creative solutions to improve students' levels in mathematics.

First, we put a lot of focus on the oral and written use of the language related to/ in relation to mathematics. Secondly, we don't depend on reading and memorizing rules from the book without understanding, but we depend on explaining abstract math by drawing different models in for example GeoGebra , and concretize math by using shapes and figures found in everyday life such as boxes, thermometers, dice, cards, measuring tapes, and we incorporate mathematics in other practical subjects such as sports, arts, science, etc. Thirdly, we encourage students to work in groups in which they actively use mathematic language. Finally, we give different math tasks to meet the different math levels of students.

How can GeoGebra help us with all these goals?

Workshop

The practical use of GeoGebra in the classroom to help migrant students

Math Visualization and Exploration by Using GeoGebra

Interactive Examples in Teaching and Learning geometry with GeoGebra

Interactive Examples in Teaching and Learning functions with GeoGebra

Interactive Examples in Teaching and Learning algebra With GeoGebra
Interactive Examples in Teaching and Learning number sense with GeoGebra
the use of the applets created with the help of
GeoGebra and the positive effect on the understanding and knowledge of the
students.