Letcanu Adelin

Alina Savu

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Geography

Digital Teaching in Scientific Subjects

Hello, I’m Adelin Letcanu, student in XII grade, at National College Anastasescu. In the Loulé mobility in Portugal I’ve presented a workshop that actively teaches you how clouds are formed in the atmosphere. For the workshop I used the intelligent blackboard to project an YouTube video that helped me explain the process. After I made sure that everybody understood the process on the big scale, I proceed to demonstrate it on a much smaller scale, I shown everybody how to make a cloud in a bottle. For this I need a empty, clear bottle, a cork, a pen, water and a pump. Drilling a hole in the centre of the cork so the pen can go thru but at the same time not losing any air on the margins. Then I’ve attached the pen to the pump, added a little bit of water in the bottle, shake it a little to create some moisture, after this I’ve attached the cork to the bottle. So now with all the components in place, what I did next was to add some air in the bottle to create pressure, because we want evaporation to happen, so when we add the pressure inside we are adding energy that helps those molecules to push against each other, creating some friction that helps water to evaporate faster. After we release the pressure drastically, condensation starts to happen and it will transform into a cloud, well, in a bottle.