



Classroom Activities about Water and Climate Change

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The purpose of this activity is to demonstrate practical work and experiments in the classroom, with students on Water: Water is the most necessary Earth's resource, although it is decreasing because many human activities are changing its quality and its availability.

The activity is designed in order to recreate experiments, simulations, and determine the aspects of the problematic environment currently plaguing our planet, especially those related to water and climate change.

The selected activities have to be easy to make, and easy to understand. Each activity will be illustrated, explained and described using pictures and short texts, so teachers could replay them in their classroom.

1. Simulation of the Ocean Water Currents Convection to understand the heat distribution in our planet.
2. Ocean Water Stratification According to Water Salinity. We can understand the behaviour of water when we mix water from different densities
3. Melting of the Arctic and Antarctic Polar Caps. In this experiment, we can see the consequences of changing environment and climate conditions as it pertains to ice and our polar ice caps. We want to show the different behaviours of continental and floating ice and to evaluate the consequences of their melting.
4. Detecting water pollution. Here, we can analyse some water patterns and get to know the existence or absence of pollutants in the water, as well as learning how to determine its pH level, hardness, nitrogen composition, bacteria content and more.
5. Creating a home treatment. We show the necessity to preserve the water quality through a suitable treatment.