

Sample classroom activities based on climate science

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We present several activities developed for the middle school education based on a climate science. The first activity was designed to teach about the ocean acidification. A simple experiment can prove that absorption of CO₂ in water increases its acidity. A liquid pH indicator is suitable for the demonstration in a classroom. The second activity uses data containing coordinates of a hurricane position. Pupils draw a path of a hurricane eye in a tracking chart (map of the Atlantic ocean). They calculate an average speed of the hurricane, investigate its direction and intensity development. The third activity uses pictures of the Arctic ocean on September when ice extend is usually the lowest. Students measure the ice extend for several years using a square grid printed on a plastic foil. Then they plot a graph and discuss the results. All these activities can be used to improve the natural science education and increase the climate change literacy.