WATER - A Chemical Solution

Global WATER Experiment

A Classroom Activity for All Ages

Celebrate the International Year of Chemistry!

The Chemical Institute of Canada invites all teachers and students to participate in this worldwide chemistry experiment during National Chemistry Week, October 15–22, 2011.

Purpose

The aim of the Global Water Experiment is to have students around the world explore one of Earth's most critical resources, water. The results of their investigations will be submitted to a global database, contributing to what is predicted to become the biggest chemistry experiment in history. All experiments have been designed to use materials that are widely available at little to no cost in order to minimize expenditure and maximize participation from countries around the world. Each experiment can be modified to suit the needs of your curriculum.

To Participate

Please visit the official website at www.water.chemistry2011.org for the full Water Experiment Modules, to register your class, to enter your data and to view mapped data from other countries.

Experiment	*Purpose*	*Example Materials*
pH of the Planet	• Students will learn about acidity by measuring the pH of a local water source.	pH indicator • Solutions, • Litmus paper, or • Test strips
Salty Waters	• Students will test salinity and learn about the nature of solutions.	Petrie dish, Cover, Balance
Water: No Dirt, No Germs	• Students will replicate the steps used in water clarification and/or disinfection, demonstrating the main steps in water treatment.	2L soft drink bottles, Fine sand, Coarse sand, Pebbles, Coffee filter, Rubber band
Solar Still Challenge	• Students will build and evaluate the efficiency of a solar-still, gaining insight into how water can be purified by distillation.	Bowl, Shallow glass, Rock, Cling wrap

www.water.chemistry2011.org

Further questions about the experiments or its materials an be directed toward iyc@cheminst.ca.

Chemical Institute of Canada

International Year of CHEMISTRY 2011

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