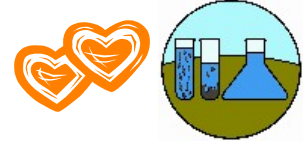
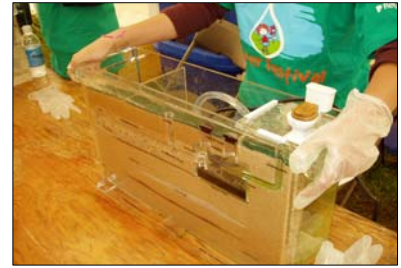

Amazing Aquifer



curriculum links

Grade 3

- Understanding Earth and Space Systems:
Soils in the Environment



overview

In this activity, students will investigate groundwater, how it travels through the earth, and how it is extracted for our use. Students will also find out how pollutants affect our groundwater and how pollution can be prevented.

grade 3 expectations

Science and Technology

Understanding Earth and Space Systems: Soils in the Environment

Overall Expectations

- assess the impact of soils on society and the environment, and of society and the environment on soils;
- investigate the composition and characteristics of different soils;
- demonstrate and understanding of the composition of soils, the types of soils, and the relationship between soils and other living things.

Specific Expectations

Relating Science and Technology to Society and the Environment

- assess the impact of soils on society and the environment, and suggest ways in which humans can enhance positive effects and/or lessen or prevent harmful effects;
- assess the impact of human action on soils, and suggest ways in which humans can affect soils positively and/or lessen or prevent harmful effects on soils.

Developing Investigation and Communication Skills



Amazing Aquifer



- ◆ investigate the components of soil, the condition of soil, and additives found in soil, using a variety of soil samples from different local environments, and explain how the different amounts of these components in a soil sample determine how the soil can be used
- ◆ use scientific inquiry/experimentation skills, and knowledge and skills acquired from previous investigations, to determine which type(s) of soil will sustain life.
- ◆ use appropriate science and technology vocabulary, including *clay*, *sand*, *loam*, *pebbles*, *earth materials*, and *soil*, in oral and written communication.



Understanding Basic Concepts

- ◆ Identify and describe the different types of soils;
- ◆ Identify additives that might be in soil but that cannot always be seen.

key terms

Aquifer: An underground bed of saturated soil or rock that yields significant quantities of water.

Groundwater: Water found in spaces between soils particles underground.

