

53. Sun, Wind and Water

Classroom Activity: Study sun, wind and water- the main elements of weather

Grade: 2

Strand(s): Understanding Earth and Space Systems

This task addresses the following overall expectations:

- investigate the characteristics of air and water and the visible/invisible effects of and changes to air and/or water in the environment;
- demonstrate an understanding of the ways in which air and water are used by living things to help them meet their basic needs.

and the following specific expectations:

- follow established safety procedures during science and technology investigationsIdentify and describe forms of moisture in the environment;
- investigate, through experimentation, the characteristics of water;
- investigate the stages of the water cycle, including evaporation and condensation, precipitation, and collection;
- use appropriate science and technology vocabulary, including solid, liquid, vapour, evaporation, condensation, and precipitation, in oral and written communication;
- use a variety of forms (e.g., oral, written, graphic, multimedia) to communicate with different audiences and for a variety of purposes;
- identify air as a gaseous substance that surrounds us and whose movement we feel as wind.

Assessment Categories:

- Knowledge and Understanding
- Thinking and Investigation
- Communication
- Application
- Teambuilding skills



Type of Activity: Classroom

Preparation: gather materials

Materials/Resources for teachers:

kettle
cold spoon
Pot with ice cubes
lamp
talcum powder
bottle

Time needed to complete this activity: 80 minutes

Materials/Resources for students: none required

Activity Description:

Review the water cycle with the class.

Rain Demonstration:

Plug in the kettle and as the steam rises first let the students condensation on a cold spoon, then hold the pot of ice cubes over the spout of the kettle. Allow the students to observe water droplets forming on the bottom of the pan. After a few minutes, the water droplets will fall like rain.

Wind Demonstration:

Plug in the lamp and sprinkle talcum powder over the hot bulb. The powder will move as heat rises from the lamp.