



Activity 9: What Should I Wear?

How should I change my clothes to match the weather?

Instructions

Read the following websites and do the activities suggested.

- **How to Survive the Freezing Cold: Frostbite and Hypothermia**

Visit this webpage and read carefully all the information about hypothermia.

<http://adventure.howstuffworks.com/how-to-survive-the-freezing-cold1.htm>

- **Canada's Windchill Index**

Visit this webpage and read carefully all the information on warm fronts.

<http://www.ec.gc.ca/meteo-weather/default.asp?lang=n&n=5FBF816A-1>

- **Sid the Science Kid: Weather Wheel**

Visit the webpage and then listen to Sid's instructions. It will be your task to make sure Sid is dressed properly for the weather. Note: Flash is required.

<http://pbskids.org/sid/weatherwheel.html>

- **What is Weather? Clothing**

Visit this webpage and follow the instructions. Choose each location and try to choose the right clothing for the traveller each time.

<http://www.bbc.co.uk/schools/whatisweather/weatherandpeople/clothing/intro.shtml>

Experiment # 1

You can test the insulating capabilities of different clothing materials, such as cotton, wool and polyester by filling a jar with 85°C water and wrapping it with cotton cloth. Then, put it in the refrigerator at 5°C. Record the water temperature in 15 minutes. Then, record the water temperature at 30 min. Repeat with wool and polyester cloth.

Which cloth is the best insulator?

Experiment #2

Cut cotton, nylon, rayon, and wool material into 15 cm squares. Fasten one square of material to the top of a cup with a rubber band and place the cup in a pie plate.

Fill a small plastic cup with water, and pour all the water over the fabric.

How much water flows through the fabric into the cup? Remove the fabric. Record the amount of water inside the cup and repeat these steps using your other material. Fabrics that allow the most water into the cup are the least absorbent.