

WEATHER WONDERS

Description

Over the course of 4 sessions, students will learn about weather by making observations and using their own instruments! Students create a rain gauge, an anemometer, a barometer, and a wind vane and use them to observe, record, and predict the weather.

Materials supplied by TELUS World of Science - Edmonton:

- 1 Ping pong ball per student

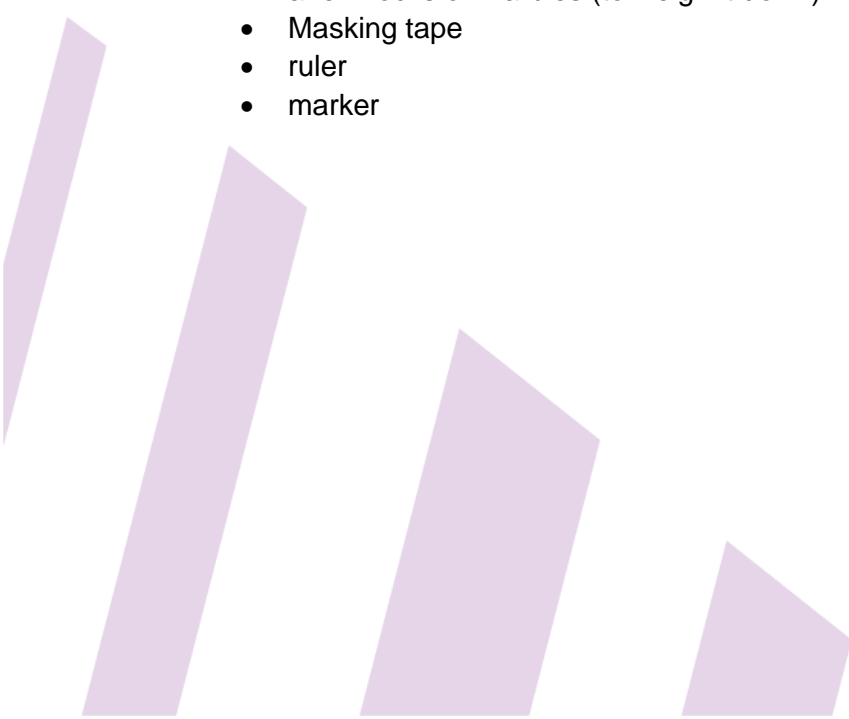
Session One: Thermometer

Materials per student:

- Small plastic bottle (food coloring or vanilla extract size)
- 15 ml of Rubbing alcohol (to fill about half of the small plastic container)
- 1 Clear Straw
- Modeling Clay (about the size of a large marble)
- Permanent Marker
- Food coloring
- Funnel
- Thermometer (optional)

Session Two: Rain Gauge

Materials per student:

- 1 empty 2-liter plastic bottle
 - scissors
 - a few rocks or marbles (to weigh it down)
 - Masking tape
 - ruler
 - marker
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Session Three: Anemometer and Wind Vane

Anemometer

Materials per student:

- 1 Piece of string, 1 meter long
- 1 piece of cardboard about the size of a piece of paper (8½" x 11")
- 1 Ping pong ball

Wind Vane

Materials per student:

- 1 3"x5" index card or other sturdy paper such as a manila folder or poster board
- Pencil for drawing
- Scissors
- 1 drinking straw
- 1 Paper plate
- Clay (about the size of a large marble)
- 1 Pencil with an eraser for wind vane
- A straight pin

Session Four: Barometer

Materials per student:

- 1 Glass jar or metal can (soup can)
- 1 Balloon
- 2 Rubber bands
- Glue
- Tape
- 1 Straw
- 1 3"x5" index card or other sturdy colored paper
- Ruler
- Scissors

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Time							
Temperature __ °C							
Wind __ km/h							
Clouds							
Precipitation __ cm							
Air Pressure __ kPa							