



Insulation Investigation

OBJECTIVE

To investigate the insulating properties of different materials.

MATERIALS

- 2 Radiation cans
- 2 Thermometers
- Insulating material
- Tape
- 2 Rubber bands

PROCEDURE

1. Remove the tops from the cans.
2. Use the insulating material to Insulate one can on the sides only.
3. Ask your teacher to fill both of your cans with hot water. Replace the tops.
4. Suspend a thermometer through the hole in each top, making sure it does not touch the bottom or the sides of the can.
5. On the chart below, record the temperature (°C) of the water in the cans at two-minute intervals for 20 minutes. Your teacher will keep track of the time with a timer.
6. Graph the results on the graph below.

DATA TABLE

TYPE OF INSULATION: _____

TIME (MIN)	0	2	4	6	8	10	12	14	16	18	20	Δ
Insulated												
Uninsulated												

