

Size & Thermal Energy

Question: Does a small cup of water have the same amount of thermal energy as a large one?

Independent Variable: _____

Dependent Variable: _____

Constants: _____

Data:

Temperature in °C						
Size	0 min.	5 min.	10 min.	15 min.	20 min.	25 min.
Small						
Large						

Analyze results:

Temperature Change



Heat Transfer & Matter Investigations

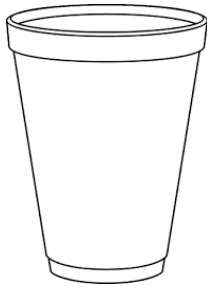
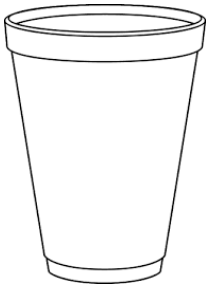
PHENOMENA 1: Melting Ice Blocks

- Observation: _____
- Cause & Effect: _____

PHENOMENA 2: Warm or Cold? With your group explore objects in our room. Find 10 that feel warm to the touch and 10 that feel cool. Record temperature of each item using your infrared digital thermometer. We will examine materials and whether they are conductors or insulators afterward.

Things that feel warm to the touch.				Things that feel cool to the touch.			
Item	Temp °C	Material	C or I ?	Item	Temp °C	Material	C or I?

PHENOMENA 3: Molecule Motion



- Observation: _____

- Cause & Effect: _____
