



## Don't Let the Ice Melt!

### Lesson Objective(s):

- Students will design and conduct experiments with consumables brought from home that could work best to keep an ice cube from melting. They will analyze and record the results of the experiment.

### Standards:

- 6th-8th grade level Science/ELA

### Suggested Materials:

- ice cubes
- consumables
- timer
- thermometer
- writing material to record observations

### Introduction:

- Introduce the topic to students by posing a prior knowledge question such as 'What do you think would be the best type of material to keep an ice cube from melting?'
  - discuss their responses to introduce insulation
- Brief discussion on heat transfers then connect to the task of finding the best consumable for keeping ice from melting

### Lesson Activity:

- Students will be in groups of 3 with their consumables and ice cube. They will then need to quickly construct and pack the materials around the ice cube
- Students will then observe and record any changes to the ice cube



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# Lesson Plan Activity

- Students can utilize the timer to record the passing of time as well as the thermometer to record temperature change.
- At the end of the experiment student will write up the findings

## **Closing:**

- Students will answer the following questions:
  1. Did the material you chose to use work?
  2. Why do you think it worked? did not work?
  3. What would you do differently?

## **Assessment:**

- Students will submit group write up and data recordings

