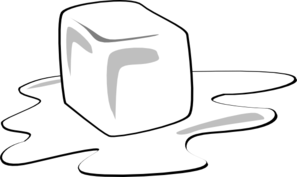
**STEM CHALLENGE**

**“Keep-a-Cube”**

**Objective:** to construct a cooler that will keep an ice cube from melting for at least 30 min.

**Teams:** people at your table

**Time to Build:** 5 min. maximum

**Materials:**

* Shoe box or small cardboard box
* Ice cube
* Masking tape
* Wax paper
* Aluminum foil
* Newspaper or packing peanuts (may only use one)

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Team Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

We are in Science Block 1 2 3 Table Color: \_\_\_\_\_\_\_\_\_\_

Place a check mark next to the materials you plan on using:

√ shoe box or small cardboard box

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **will** bring in a box by **Thursday, April 23**

√ ice cube

\_\_\_ masking tape

\_\_\_ wax paper

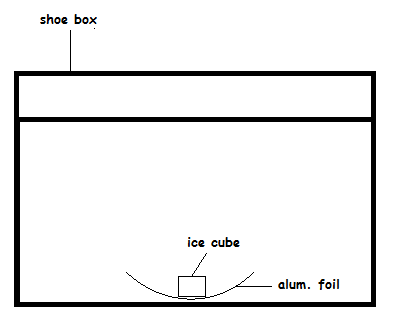
\_\_\_ aluminum foil

Can use one or the other, but **not** both

\_\_\_ newspaper

\_\_\_ packing peanuts

Explain why your team chose **each** of the materials that you did in order to create your cooler.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Use the space below to draw a cross-section diagram of your cooler. Be sure to label **each** part of the cooler with the material that you are using for that part. Use the picture to the right to help you.

**Keep-A-Cube Cooler Diagram**