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 Goggles on around open flames

**Problem**: To simulate the changes that occur during the rock cycle

**Materials**: Sugar cubes, Candle, Test tube clamp, Foil, Hand lens, Goggles

**Procedure**

1. Examine the sugar cube with a hand lens. How is the sugar cube like

sedimentary rock?

2. Crush the sugar cube into a powder (in your hand or onto a piece of paper). What part of the rock cycle does this represent?

3. Make a “boat” with your foil. Pour the crushed sugar into the foil boat.

What part of the rock cycle does this movement represent?

4. Use the test tube clamp to hold the boat over the candle flame. Observe

as the sugar begins to melt. What part of the rock cycle does this

represent?

5. Set the foil boat aside and let the sugar cool and harden. What part of the

rock cycle does this represent?

6. Break the hardened sugar into pieces. What part of the rock cycle does

this represent?

**Conclusion:** Draw a model of the rock cycle using the sugar cube and the phases you caused it to go through. You can use drawings and/or words. Include arrows and label the process the arrows represent.