Keep It Hot! Quiz

1. You put hot water in a bottle and let it cool in the classroom for 10 minutes. In the case of the un-insulated (control) bottle, which way did heat flow?
   a. From the outside air to the bottle.
   b. From the bottle to the outside air.
   c. Heat did not flow during this activity.

2. In the case of the insulated bottle, which way did heat flow?
   a. From the outside air to the bottle.
   b. From the bottle to the outside air.
   c. Heat did not flow when the bottle was insulated.

3. What is the purpose of insulation?
   a. To slow down the flow of heat.
   b. To reverse the flow of heat.
   c. To completely stop the flow of heat.

4. If we had filled the bottles with ice water instead of hot water, what would have happened?
   a. Insulated bottles would warm up faster than un-insulated bottles.
   b. Insulated bottles would stay cool longer than un-insulated bottles.
   c. There would be no difference between the two bottles.