

Keep It Hot! Quiz Answer Key

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.