**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?**
   1. **From the outside air to the bottle.**
   2. **From the bottle to the outside air.**
   3. **Heat did not flow during this activity.**
2. **In the case of the insulated bottle, which way did heat flow?**
   1. **From the outside air to the bottle.**
   2. **From the bottle to the outside air.**
   3. **Heat did not flow when the bottle was insulated.**
3. **What is the purpose of insulation?**
   1. **To slow down the flow of heat.**
   2. **To reverse the flow of heat.**
   3. **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?**
   1. **Insulated bottles would warm up faster than un-insulated bottles.**
   2. **Insulated bottles would stay cool longer than un-insulated bottles.**
   3. **There would be no difference between the two bottles.**