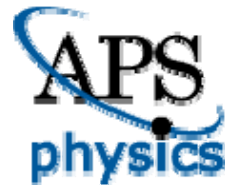


**Solutions to Physics Quest 2007: Marie Curie's Floating Classroom**



1. Based on the results of your tests, rank the four materials in order from lowest heat conductivity (1) to highest heat conductivity (4).

1. Felt (Lowest heat conductivity)
2. Cardboard
3. Glass
4. Aluminum (Highest heat conductivity)

**Cardboard is ranked 2<sup>nd</sup> so you should move 2 boxes east, ending at “C”, the Krasinskich Palace**

2. On a molecular level, what do you think is the main difference between hot and cold water?

Hot water molecules move faster

**You should now move 4 boxes south, ending at the upper right hand corner of “M”, Saxon Garden.**

3. Choose the graph below that most looks like the graph you created in Question 1. Graph 2 looks most like the graph created in Question 1.

**You should now move 2 boxes west, ending at “L”, the Bazaar.**

3. A reaction that gives off heat is called an exothermic reaction. A reaction that absorbs heat is called an endothermic reaction. Was the reaction in Experiment 3 and endothermic reaction or an exothermic reaction?

The reaction was exothermic.

**You should now move 2 boxes west, ending at “K”, the Museum.**

**Marie Curie's next class is at the Museum**