**Physics 100 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Motion**

Position vs. Time Motion Matching Activity Questions:

On a motion sensor graph of position vs. time…

1. What does a positive (upward) slope tell you about the object’s motion?

2. What does a negative (downward) slope indicate?

3. What does the steepness of a slope tell you about the object’s motion?

4. What does a constant (straight line) slope indicate?

5. What might a smoothly curving line indicate?

6. Sketch a negative slope that is becoming less steep. What does this curve indicate about the motion of an object?

7. Sketch a negative slope that is getting steeper. What does this curve indicate about the motion of an object?

8. Sketch a positive slope that is becoming less steep. What does this curve indicate about the motion of an object?

9. Sketch a positive slope that is getting steeper. What does this curve indicate about the motion of an object?