

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?