Name: _____ **Date:** _____

Fast and Slow Motion Quiz for First Grade Stars

Path analysis, speed comparisons, and predictive movement. Watch young scientists evaluate how objects travel through different environments.

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1. A toy car and a real turtle start a race at the same time. The car crosses the finish line while the turtle is still at the start. What does this tell us?

A. The turtle is faster than the car.
B. The car has a higher speed than the turtle.
C. They both moved the same way.
D. The car stayed in the same position.

2. If a ladybug crawls 5 inches forward and then 5 inches backward, its final _____ is back at the start.

A. speed
B. zigzag
C. position
D. fastness

3. An object can change its motion by speeding up, slowing down, or changing its direction.

A. True
B. False

4. You drop a feather and a heavy block at the same time. The block hits the ground first. Why did the feather take longer?

A. The feather moved in a straight line.
B. The feather had a slower downward speed.
C. The feather was not moving at all.
D. The block vanished into thin air.

5. A hunter's arrow flying through the air moves in a _____ path compared to a fluttering butterfly.

A. curvy
B. round
C. straighter
D. backwards

6. Imagine a swing moving back and forth. At which point is the swing's speed zero for just a tiny second?

A. At the very bottom
B. When it is highest in the air
C. In the middle of the path
D. While it is moving fastest

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7. If two bikes travel for one minute, the bike that goes the furthest distance is the slowest bike.

A. True
B. False

8. A marble rolls down a steep ramp and then along a flat floor. What happens to its motion on the flat floor?

A. It speeds up forever.
B. It keeps the same speed forever.
C. It starts to slow down.
D. It turns into a square.

9. When a train arrives at the station, it must _____ its speed to help people get off safely.

A. increase
B. decrease
C. ignore
D. double

10. A spinning top is in motion even though it stays in the same spot on the floor.

A. True
B. False