

Name: _____ Date: _____

Your Super Snail Race: Pre-K Advanced Motion Challenge

Preschoolers evaluate path efficiency and speed changes for garden animals to develop early critical thinking skills in kinematics.

1. A turtle and a rabbit start at the same tree. The turtle walks straight to the pond, but the rabbit runs in big circles before reaching the pond. Who traveled the shortest distance?

- A. The rabbit
- B. The turtle
- C. They are the same
- D. The pond

2. If a red wagon is moving faster than a blue wagon, it will always get to the finish line first, even if it starts much further away.

- A. True
- B. False

3. When a slide is very steep, a child starts slow at the top and goes _____ at the bottom.

- A. Slower
- B. The same
- C. Faster
- D. Backwards

4. Changing your direction while you are running means you are changing your velocity.

- A. True
- B. False

5. Imagine three balls: one heavy, one medium, and one light. If you push the heavy ball and the light ball with the exact same tiny tap, which one will likely have the most motion?

- A. The heavy ball
- B. The light ball
- C. Both move the same
- D. Neither will move

6. If you are swinging on a swing, your motion is _____.

- A. Straight
- B. Back and forth
- C. Only forward
- D. Stopped

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7. You drop a feather and a toy block at the same time. The block hits the floor first. Why is the block's motion different?

- A. The block is colorful
- B. The air pushes the feather
- C. The floor moved
- D. The feather is shy

8. If you walk 3 steps forward and 3 steps backward, you are back where you started.

- A. True
- B. False

9. To make a toy car stop moving immediately, you must provide a ____.

- A. Wish
- B. Force
- C. Smile
- D. New color

10. A ball is rolling on a flat rug. It eventually stops even if no one touches it. What slowed it down?

- A. It got tired
- B. The floor rubbing it
- C. The ball's weight
- D. Nothing