

Name: _____ Date: _____

Launch Little Learners: Pre-K Motion Mastery Quiz

Preschoolers predict pathways and synthesize speed concepts by designing imaginary animal races and mechanical movements.

1. If you want to design a toy car that moves the fastest, which animal's 'zoom' style should you copy for your wheels?

- A. A slow-stepping turtle
- B. A lunging, leaping leopard
- C. A sleeping koala
- D. A heavy-walking elephant

2. True or False: If you push a ball and it changes its 'pathway' from a straight line to a curve, you have changed its motion.

- A. True
- B. False

3. Imagine a rocket starting at 'Zero' speed. To make it go up, the fire must help it _____ to reach the clouds.

- A. Slow down
- B. Stop still
- C. Speed up
- D. Go backwards

4. You are building a slide. To make a teddy bear travel a long distance (displacement) away from the slide, how should it look?

- A. Flat like a floor
- B. Curved upward
- C. Very short and bumpy
- D. Tall and steep

5. True or False: A pendulum swinging back and forth is moving even though it stays in the same area.

- A. True
- B. False

6. If a honeybee flies in a circle and ends up exactly where it started, its total change in 'Starting Spot' is _____.

- A. Huge
- B. Zero
- C. Ten miles
- D. Very fast

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7. If you are acting like a robot and stop moving exactly when your teacher says 'Red Light,' what is your velocity?

- A. Very fast
- B. Medium
- C. None / Zero
- D. Zig-zag

8. True or False: When a ball rolls down a hill, it usually gets faster and faster (accelerates) as it goes down.

- A. True
- B. False

9. To describe how a train moves from the station to the city, we need to know how far it went and in which _____.

- A. Color
- B. Direction
- C. Sound
- D. Smell

10. If you push a swing gently, and then push it very hard, you are changing the swing's _____.

- A. Color and shape
- B. Name and age
- C. Speed and height
- D. Material and wood