

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Answer Key: Marvelous Moving Magic: Kindergarten Kinematics Quiz

Visualize and verify how animals and objects change speed or direction through interactive scenarios designed for young observers.

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**1. A turtle is crawling slowly to a leafy snack. Suddenly, a hungry bird flies by very fast! Which one is moving with more speed?**

**Answer:** B) The fast bird

Speed describes how fast something moves. Since the bird is flying 'very fast' compared to the 'slow' turtle, the bird has more speed.

**2. Imagine you are pushing a toy fire truck. If you want the truck to move even faster, you are using \_\_\_\_\_.**

**Answer:** C) Acceleration

Acceleration is the word scientists use when something speeds up or changes how fast it is going.

**3. True or False: If a marble rolls from the blue rug to the red rug, its position has changed.**

**Answer:** A) True

Motion happens when an object moves from one spot (position) to another spot.

**4. A busy honeybee flies to a yellow flower, then turns and flies to a white flower. What did the bee change?**

**Answer:** B) Its direction

Direction is the path an object takes. When the bee turns toward a different flower, it is changing its direction.

**5. True or False: A swing at the park only moves in one straight line forever.**

**Answer:** B) False

A swing moves in a back-and-forth motion, which means it changes direction every time it reaches the top.

**6. When a sliding penguin hits a patch of grass and begins to move slower and slower, we say it is \_\_\_\_\_.**

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**Answer:** A) Slowing down

Slowing down is a change in motion where the object's speed decreases over time.

**7. Which of these looks like a 'zig-zag' motion?**

**Answer:** C) A lizard running left, then right, then left

Zig-zagging is a type of motion where an object frequently changes direction from side to side.

**8. To describe where a toy robot is located, like 'under the table' or 'next to the block,' you are talking about its \_\_\_\_\_.**

**Answer:** B) Position

Position is the specific place where an object is located in relation to things around it.

**9. True or False: An object can change its position without moving.**

**Answer:** B) False

For an object to be in a new position, it must move. If it doesn't move, its position stays the same.

**10. If you roll a toy car across the floor and it hits a wall and stops, what happened to its motion?**

**Answer:** B) The motion ended

When an object stops moving, its motion ends because its position is no longer changing.