Name: _____ **Date:** _____

Zoinks! Can You Track the Zippy Zoo Animals? 2nd Grade Physics Quiz

Students predict animal races and design obstacle courses to calculate how speed and direction changes help a cheetah catch its lunch.

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1. A hungry penguin slides 10 feet toward a bucket of fish, but then slides 10 feet back to the water because it forgot its hat. Where is the penguin now compared to where it started?

A. 20 feet away from the start
B. 10 feet away from the start
C. Right back at the starting spot
D. In the middle of the ice

2. An ostrich is running at a 'steady speed' across the grass. If it does not speed up or slow down, we say its _____ is staying the same.

A. Acceleration
B. Velocity
C. Height
D. Gravity

3. If a kangaroo is jumping in a straight line and suddenly turns left to hop toward a tree, its velocity has changed.

A. True
B. False

4. A turtle and a snail are having a race. The turtle moves 2 inches every second. The snail moves 2 inches every minute. Who has the higher velocity?

A. The snail
B. The turtle
C. They are the same
D. Neither is moving

5. When a cheetah is snoozing in the shade and then suddenly starts sprinting to catch a gazelle, it is using _____.

A. Deceleration
B. Acceleration
C. Stillness
D. Backward motion

6. A toy car rolling down a steep ramp will usually show acceleration by going faster and faster.

A. True
B. False

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7. You throw a ball straight up into the air. At the very tippy-top of its flight, just before it falls back down, what is its velocity for a tiny split second?

A. Very fast up
B. Very fast down
C. Zero
D. 100 miles per hour

8. Imagine a blue bird flies 5 miles North. Then, a red bird flies 5 miles South. They have the same speed, but they have different _____.

A. Weights
B. Velocities
C. Altitudes
D. Sizes

9. If a squirrel is running and then tries to stop quickly to pick up an acorn, the squirrel is accelerating.

A. True
B. False

10. If you walk 3 steps forward and 2 steps backward, what is your total 'displacement' from where you started?

A. 5 steps forward
B. 1 step forward
C. 3 steps backward
D. 0 steps