

C2. Object Direction & Speed

Object Direction & Speed

Have you ever seen a car zooming down the street or a bird flying gracefully in the sky? You might have noticed that things move in different directions and at different speeds. In this reading, we will learn about object direction and speed and how they make our world so interesting!

Direction

Direction tells us which way something is moving. There are four main directions: north, south, east, and west. When you look at a compass, it can show you these directions.

1. North is the direction pointing towards the North Pole.
2. South is the direction pointing towards the South Pole.
3. East is the direction where the sun rises.
4. West is the direction where the sun sets.



But objects don't always move in just these four directions! They can also move diagonally, like from northeast to southwest or from northwest to southeast. Imagine drawing a line on a map to connect these points!

Speed

Speed tells us how fast something is moving. Think about a turtle moving slowly compared to a rabbit running quickly. The turtle has a slower speed, while the rabbit has a faster speed.

We can use different units to measure speed. For example, we can measure how many miles or kilometers an object moves in an hour. We can also use meters per second to measure speed.

How Speed Affects Direction

The speed of an object can also affect its direction. Let's look at an example. If you kick a soccer ball softly, it might not go very far and could stop quickly. But if you kick it with a lot of force, it can travel much farther before stopping.

Changing Directions

Objects can change their direction too! Think about a bird flying up in the sky. It can change direction and fly in different patterns, like circles or zigzags. A car can turn left or right to change its direction on the road.

1. What are the four main directions?
 - A) North, south, east, and west.
 - B) Up, down, left, and right.
 - C) Forward, backward, left, and right.
 - D) Northeast, northwest, southeast, and southwest.
2. Which direction does the sun rise?
 - A) North
 - B) South
 - C) East
 - D) West
3. What does speed tell us?
 - A) How big something is
 - B) How fast something is moving
 - C) How heavy something is
 - D) How colorful something is
4. What unit can we use to measure speed?
 - A) Pounds
 - B) Meters per second
 - C) Liters
 - D) Degrees Fahrenheit
5. What is an example of moving in a diagonal direction?
 - A) Moving from north to south
 - B) Moving from east to west
 - C) Moving from northeast to southwest
 - D) Moving from north to west
6. How does speed affect an object's direction?
 - A) It doesn't affect the direction.
 - B) Faster speed makes the object go in circles.
 - C) Slower speed makes the object travel farther.
 - D) Faster speed makes the object travel farther.
7. What can an object do to change its direction?
 - A) Speed up
 - B) Slow down
 - C) Turn left or right
 - D) Go up and down
8. Which animal has a faster speed: a turtle or a rabbit?
 - A) Turtle
 - B) Rabbit

9. How do we measure speed in kilometers per hour?
- A) How many kilometers something moves in an hour.
 - B) How many meters something moves in an hour.
 - C) How many kilometers something moves in a minute.
 - D) How many kilometers something moves in a day.

10. What are some different patterns an object can move in?
- A) Lines and dots
 - B) Circles and squares
 - C) Circles and zigzags
 - D) Triangles and ovals



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ANSWERS & EXPLANATIONS

1. A - North, south, east, and west.
 - The four main directions are north, south, east, and west.
2. C - East.
 - The sun rises in the east.
3. B - How fast something is moving.
 - Speed tells us how fast something is moving.
4. B - Meters per second.
 - We can measure speed in meters per second.
5. C - Moving from northeast to southwest.
 - Moving from northeast to southwest is an example of moving in a diagonal direction.
6. D - Faster speed makes the object travel farther.
 - An object with faster speed can travel a greater distance before stopping.
7. C - Turn left or right.
 - Objects can change their direction by turning left or right.
8. B - Rabbit.
 - The rabbit has a faster speed compared to a turtle.
9. A - How many kilometers something moves in an hour.
 - We measure speed in kilometers per hour by determining how many kilometers something moves in an hour.
10. C - Circles and zigzags.
 - Objects can move in different patterns like circles and zigzags.