

# UNIT 2



## Speed and Velocity

*Speed is a quantity that measures the distance an object travels in a given time interval.*

$$\text{speed} = \frac{\text{distance}}{\text{time}} \qquad v = \frac{d}{t}$$

*Velocity is a vector that includes speed and direction.*

Answer the following questions about speed and velocity.

1. A car is driving west on a highway at 25 m/s. What is the car's speed in km/h?

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2. What is the car's velocity?

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3. If the positive direction is defined as "toward the east," what is a mathematical expression of the car's velocity?

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4. How far does the car travel in 5 minutes? Express your answer in m and km.

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5. Polar bears are extremely good swimmers and can travel as long as 10 hours without resting. If a polar bear swims with an average speed of 2.6 m/s, how far does it travel in 10.0 hours? Express your answer in m and km.

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6. Suppose the polar bear were running on land instead of swimming. If the polar bear runs at an average speed of 8.3 m/s, how far does it travel in 10.0 hours? Express your answer in m and km.

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7. A walrus can swim faster than a polar bear, but has less endurance. If a walrus swims at an average speed of 9.7 m/s, how far does the walrus swim in 3.4 minutes? Express your answer in m and km.

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8. Tree sloths are the slowest mammals on Earth. An typical tree sloth moves with a maximum speed of 0.075 m/s. How long would it take a sloth moving at this speed to travel 2.0 m?

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# Physical Science 9th Grade Study Guide

**SA Dillow**



## **Physical Science 9th Grade Study Guide:**

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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Physical Science 9th Grade Study Guide**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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