

## Ebook free 112 speed and velocity answers (PDF)

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speed being a scalar quantity is the rate at which an object covers distance the average speed is the distance a scalar quantity per time ratio speed is ignorant of direction on the other hand velocity is a vector quantity it is a direction aware quantity the average velocity is the displacement a vector quantity per time ratio

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velocity refers to the rate at which an object changes their position in a particular direction it is a scalar quantity as it comprises of magnitude only velocity is a vector quantity as it comprises of both magnitude and direction speed indicates how fast an object is moving

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speed vs velocity two important quantities that play a role in describing the motion of an object are speed and velocity both quantities provide information about an object's trajectory but

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although speed and velocity are often words used interchangeably in physics they are distinct concepts velocity  $v$  is a vector quantity that measures displacement or change in position  $\Delta s$  over the change in time  $\Delta t$  represented by the equation  $v = \frac{\Delta s}{\Delta t}$

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mathematics of circular motion any moving object can be described using the kinematic concepts discussed in unit 1 of the physics classroom

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velocity is direction aware and it is the rate of change of position of an object speed is a scalar quantity i.e. it has only magnitude velocity is a vector quantity i.e. it has both magnitude and direction speed measures the distance traveled  $d$  over the change in time  $\Delta t$

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