

# Motion in One Dimension

## Unit 1 Learning Objectives

1. Describe motion in different reference frames.
2. Solve problems involving distance and displacement and distinguish between the two.
3. Calculate the average speed or velocity of an object and distinguish between speed and velocity.
4. Convert metric distance and speed units.
5. Explain the meaning of slope in position vs. time graphs, and use these graphs to solve problems.
6. Explain the meaning of the area under the graph in velocity vs. time graphs, and use these graphs to solve problems.