

Key / Teacher Copy

Graphic Organizer 7.P.1.1

# Speed and Motion

What is speed?

- How fast or slow an object moves.
  - The rate at which an object travels.
- Speed =  $\frac{\text{distance}}{\text{time}}$
- $s = \frac{d}{t}$
- m/s  
Km/h

How can the motion of an object be described?

- Use reference points
  - Speed
  - directions (N, S, E, W, left, right, etc.)
- + = moving right or forward  
- = moving left or backward
- Speed and direction = VELOCITY

Why do reference points change based on who is observing?

Location or object for comparing

Frame of Reference (like point of view)

- Reference points change because the position of the observer changes.
- The observer may actually be moving, but objects right with them appear to be staying still.