Lesson Outline

LESSON 1

Position and Motion

- **A.** Describing Position
 - **1.** A(n) ______ is a starting point you choose to describe the location, or position, of an object.
 - _____ is an object's distance and direction from a **2.** A(n) _____ reference point.
 - **3.** A complete description of a position includes a distance,

a(n) ______, and a reference point.

- **4.** A good choice for a(n) _______ is something that is easy to find.
- 5. If a reference point changes, the description of an object's

_____ will also change.

- 6. Changing a reference point does not change the actual _____ of an object.
- 7. When you describe an object's position, you compare its location to a reference _____
- **8.** A reference direction can be described as a(n) ______ direction. The opposite direction is the ______ direction.
- **B.** Describing Position in Two Dimensions
 - **1.** When you describe position using two directions, you are using two _____.
 - _____ directions in two dimensions include 2. Examples of _____ "north and east" and "right and forward."
 - **3.** To find a position in two dimensions, first choose a reference

_____. Next specify reference _____.

Then determine the ________ along each reference direction.

C. Describing Changes in Position

- **1.** ________ is the process of changing position. It is always
 - described relative to a(n) ______.
- **2.** It is possible to move with regard to one ______ and stay motionless with regard to another _____