

Chapter 3

Linear Motion

3.1 Motion is Relative

- Everything moves
 - Even objects that appear at rest

3.2 Speed

- Instantaneous speed
 - Speed at any instant
- Average speed
 - $\text{Average speed} = \text{distance covered} / \text{time interval}$
 - $\text{Distance covered} = \text{average speed} \times \text{time interval}$

3.3 Velocity

- "Directed" speed
- Constant velocity
 - Constant speed and direction
- Changing velocity
 - If either (or both) speed or direction change

3.4 Acceleration

- How quickly and in what direction the velocity changes
- $\text{Acceleration} = \text{change of velocity} / \text{time interval}$
- Acceleration on Galileo's Inclined Planes
 - $\text{Velocity acquired} = \text{acceleration} \times \text{time}$

3.5 Free Fall

- When an object falls under the influence of gravity alone
- How quickly "how fast" changes
 - $\text{How fast does not} = \text{how far}$

3.6 Velocity Vectors

- To know your velocity is to know your speed and direction
- Speed is a scalar quantity
- Velocity is a vector quantity

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