Study Guide: Motion and Force

Define:

Motion

Reference point

Speed

Velocity

Acceleration

Positive acceleration

Negative acceleration

Angular acceleration

Force

Balanced Forces

Unbalanced Forces

Friction

Gravity

Weight

Free Fall: when the only force acting on an object is gravity.

Cannot happen within Earth’s atmosphere

**Air Resistance** – a force that slows down moving objects; considered fluid friction

Centripetal Force: the force that pulls an object into a circular orbit around another object (ex: moon around Earth)

Calculations and units for

Speed or velocity

Acceleration

Force

Weight

Interpret Graphs for:

Speed/velocity: know what is on the y-axis (vertical) and the x-axis (horizontal)

Acceleration: know what is on the y-axis (vertical) and the x-axis (horizontal)