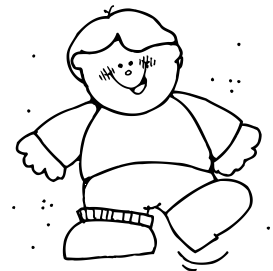
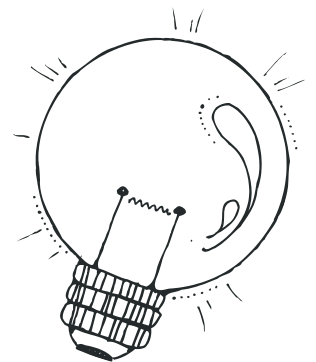


Force, Motion, and Simple Machines Study Guide



- Force- a push or pull
- Effort Force- force you use to move something
- Motion- movement or change in position
- Friction- when 2 objects rub against each other- resistance- rough surfaces cause more friction
- Inertia- tendency of an object to stay at rest or stay in motion
- Speed- the rate of movement- how fast or slow
- Gravity- the force that pulls 2 objects together
- Work- to use energy to make something happen
- Energy- the ability to do work
- Direction- the path of movement- where something is going
- Simple Machine- a machine that makes work easier
- Inclined Plane- a tilted ramp- to help move things
- Lever- a bar or plank and a fixed point (fulcrum)- helps lift heavy objects or open things
- Wheel and Axle- a wheel with a bar passing through the center
- Pulley- rope is passed around a wheel- makes it easier to lift things
- Wedge- two inclined planes back to back
- Screw- an inclined plane twisted into a spiral



Simple Machines Examples

Levers- wheelbarrow, seesaw, shovel

Inclined Plane- ramp

Screw- light bulb

Wheel and Axle- door knob, screwdriver

Wedge- ax, knife