

Science Study Guide

Investigation 4: Transfer of Energy

- Evidence energy is present: heat, light, sound, motion
- Examples of energy sources: batteries, sun, food, fuel
- Force: pull or push
- Friction: action that acts against moving object
- Types of forces: gravity, friction
- Kinetic energy: energy something has when in motion
- Potential energy: energy something has related to its position
- Humans' main source of energy is the sun.
- Fossil fuels: natural gas, oil, and coal
- The higher an object, the more potential energy it has.
- The higher an object is, the faster it will travel when it starts to move.
- An object from a higher position will move more quickly because gravity has a longer time to act on the object.
- The faster an object is moving, the more kinetic energy it has.
- When objects collide, energy is transferred.
- If an object is stationary (not moving), the forces are balanced or equal.