

SECTION 5-1: NATURE OF ENERGY

ENERGY

IS

The ability to do work.

5 MAIN FORMS

①

Mechanical

Energy associated with motion

EXAMPLES

- moving water
- wind
- sound
- walking
- blood flow
- throwing

②

Heat

The internal motion of the atoms.

EXAMPLE?

Usually results from friction.

causes changes in temperature thus phases of matter

③

Chemical

Energy required to bond atoms together.

When bonds are broken, this energy is released.

EXAMPLE

Burning of fuel.

④

electromagnetic

moving electric charges have the ability to do work.

4 other types

- light
- X-ray
- radio waves.
- laser light

⑤

Nuclear

The nucleus, or center of an atom is a source of nuclear energy.