

Energy Intro Notes

Energy Intro

Energy is the ability
to cause change...

Change position

Change shape

Change state

Examples:

Wind, electricity,
heat

Forms of Energy

1. Mechanical
2. Sound
3. Chemical
4. Thermal
(HEAT)
5. Electromagnetic
(EM)
6. Nuclear

Forms of Energy

**1- Mechanical...MOVE
OBJECTS**

**Example: turning a car
key**

**2- Sound- VIBRATION,
VIBRATING MOLECULES**

**Example: any musical
instrument**

**3- Chemical- stored
energy in molecules**

Example- gasoline

Forms of Energy

4- Thermal- MOVEMENT OF PARTICLES (MOLECULES)

5- Electromagnetic (EM)- move through space...

X-rays, UV RAYS

6- Nuclear- energy of the atom (nucleus)

Energy: Kinetic and Potential

Kinetic energy IS
the energy of
motion

Examples:

- A rock falling
- A paper plane flying
- A bowling ball rolling towards the pins

Energy: Kinetic and Potential

Potential energy is
STORED energy

Examples:

- A rock on the top of the mountain
- Food
- Battery

7th grade Anchor Questions Week 14 (Dec. 1-5)

- 1. What is energy? List the six forms of energy**
- 2. Compare sound and electromagnetic energy**
- 3. Give an example of each of the six forms of energy**
- 4. What are the two basic types of energy?**
- 5. How are kinetic and potential energy different?**
- 6. Explain with an example kinetic energy**
- 7. Explain with an example potential energy**

Vocabulary:

Energy

Chemical energy

Nuclear energy

Kinetic energy

Mechanical energy

Potential energy

Thermal energy

Sound energy

Energy efficiency

Electromagnetic energy