

Learning Target: I can explain energy transformations within a system (chemical, mechanical, Electromagnetic, light, sound, thermal, electrical, and nuclear).



### Energy Transformations 101

**Law of Conservation of Energy states that**

- \_\_\_\_\_

- Can be \_\_\_\_\_ from one type to another

**Example:**

Lighting a match

- \_\_\_\_\_ energy \_\_\_\_\_ into \_\_\_\_\_ (light) and \_\_\_\_\_ (heat).

**2 major types (kinds) of energy**

- \_\_\_\_\_ - stored energy in an object due to it's

- **Position**

- \_\_\_\_\_

- \_\_\_\_\_

- **or chemical make up**

- \_\_\_\_\_

- \_\_\_\_\_

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**Ke (kinetic energy) – Energy from \_\_\_\_\_.** The faster an object moves the higher \_\_\_\_\_

- Examples

- Books \_\_\_\_\_

- Riding a \_\_\_\_\_

- \_\_\_\_\_

- Water going over the \_\_\_\_\_

**The Forms of Energy are:**

- \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**Mechanical Energy**

- Energy of \_\_\_\_\_

- Not 100% efficient, \_\_\_\_\_

- Examples =

**Radiant Energy**

- Energy coming from \_\_\_\_\_

- Travels through \_\_\_\_\_

- Example = \_\_\_\_\_

**Electrical Energy**

- Moving \_\_\_\_\_

- Example =

**Electromagnetic Energy**

- Energy that travels in waves; have

- Examples =

**Heat/Thermal Energy**

- The internal \_\_\_\_\_ of an objects \_\_\_\_\_

- Measured by \_\_\_\_\_

- The \_\_\_\_\_ particles move, the more \_\_\_\_\_ they have.

- Example = \_\_\_\_\_

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### Nuclear Energy

- Energy stored in \_\_\_\_\_ of an atom
- Most \_\_\_\_\_
- only \_\_\_\_\_
- Examples = \_\_\_\_\_ (breaking apart), \_\_\_\_\_ (forming), Sun

### Chemical Energy

- Energy stored by \_\_\_\_\_ in an object.
- When bonds are \_\_\_\_\_, \_\_\_\_\_ is released.
- Examples = \_\_\_\_\_

### Energy Transformations 101 – Checks for Understanding

Check for Understanding 1 – Write the type of energy (Kinetic or Potential) and the form of energy it is beside its description.

1. Pizza \_\_\_\_\_
2. Radio wave \_\_\_\_\_
3. Energy in Sun \_\_\_\_\_
4. Power line \_\_\_\_\_
5. Moving car \_\_\_\_\_
6. Falling basketball \_\_\_\_\_
7. An unlit match \_\_\_\_\_
8. Forest fire \_\_\_\_\_

### Energy Transformation -



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1.



2.



\_\_\_\_\_ to \_\_\_\_\_

\_\_\_\_\_ to \_\_\_\_\_

3.



4.



\_\_\_\_\_ to \_\_\_\_\_

\_\_\_\_\_ to \_\_\_\_\_

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