

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.



_____ to - _____

2.



- _____ to - _____

3.



_____ to - _____ - _____ to _____

4.



- _____ to _____

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