

Physics I

Name:

Date:

Block:

1. Energy
2. Types of Energy

Energy

_____ is all around us. It is defined as the _____. If an object or organism does work (_____ a force over a distance to move an object), it uses energy.

- Examples: a _____ uses energy to carry people
: electric _____ in a current uses energy to _____ a _____

Energy is _____ or _____. It can be _____ from one kind of energy to another kind of energy. This means that energy is _____.

We are able to _____ many types of energy into forms of energy.

Forms of Energy

There are two main forms of energy: _____ and _____.

What is Kinetic Energy?

Kinetic energy is the _____.

We are able to categorize many types of energy as kinetic energy.

Examples of Kinetic Energy:

- _____ **Kinetic Energy**
 - Energy of an object that is in motion
- _____ **Energy**
 - Energy of _____ waves from an energy source. This source of energy generally comes from the _____.
- _____ **Energy (Heat)**
 - Energy of _____ of particles in a substance; it is detected as _____.
 - Example: geysers, volcanoes, hot springs
- _____ **Energy**
 - Energy of _____ of particles
- _____ **Kinetic Energy**
 - Energy of electrons moving along a _____



What is potential energy?

_____ is the _____ of an object as a result of its condition or its _____.

We are able to categorize many types of energy as potential energy.

Types of Potential Energy

- _____ Potential Energy
 - Energy stored in a _____ or _____ object
- _____ Potential Energy
 - Energy stored in _____
 - This is the form of energy we acquire from food and store in our muscles.
 - Example: batteries store chemical energy; fossil fuels (coal, oil, natural gas) store chemical energy.
- _____ Potential Energy
 - Energy due to the _____ of an object
- _____ Energy
 - Energy stored in the _____ of an atom
 - When the nucleus of an atom _____ or _____ (with another), nuclear energy is released.
 - This takes the form of _____ (solar) and _____.
 - This is the most _____ form of energy.
 - There are two main ways we can get nuclear energy:
 - Nuclear _____: New atoms are made as smaller atoms collide and fuse together (occur on the Sun and in stars)
 - Nuclear _____: New atoms are made by splitting larger atoms (carried out in reactors on Earth).
- _____ Potential Energy
 - Energy is stored by a _____ of positive and negative charges
- _____ Potential Energy
 - Energy stored in a _____

