



Science Virtual Learning

**6th Grade Science:**

**Forms of Energy**

May 20, 2020



## 6th Grade Science

### Lesson: May 20, 2020

### **Objectives/Learning Targets:**

Students will understand the different forms on energy and how they apply to our surroundings.

## Warm Up

You learned about potential & kinetic energy yesterday, but what other types of energy are there? Create a list.

Watch the Forms of Energy [BrainPOP](#) to help add to your thinking!



## Warm Up - Answer Key

### Forms of Energy:

- Potential
- Kinetic
- Chemical
- Electrical
- Light
- Mechanical
- Thermal
- Nuclear



## Forms of Energy

### Mechanical:

Energy that moves objects from place to place.



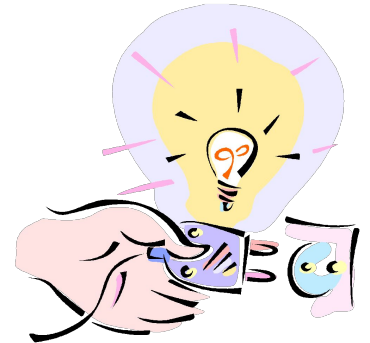
### Chemical:

Energy released by a chemical reaction.



### Electrical:

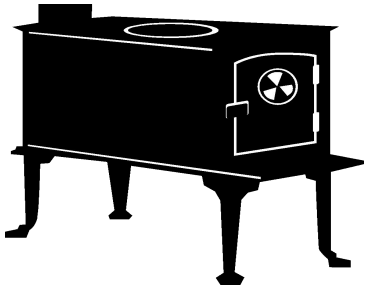
Energy that comes from the electrons within atoms.



## Forms of Energy

### Heat/Thermal:

Energy created by the motion of atoms and molecules that occurs within an object.



### Nuclear:

Energy contained in the nucleus of an atom.



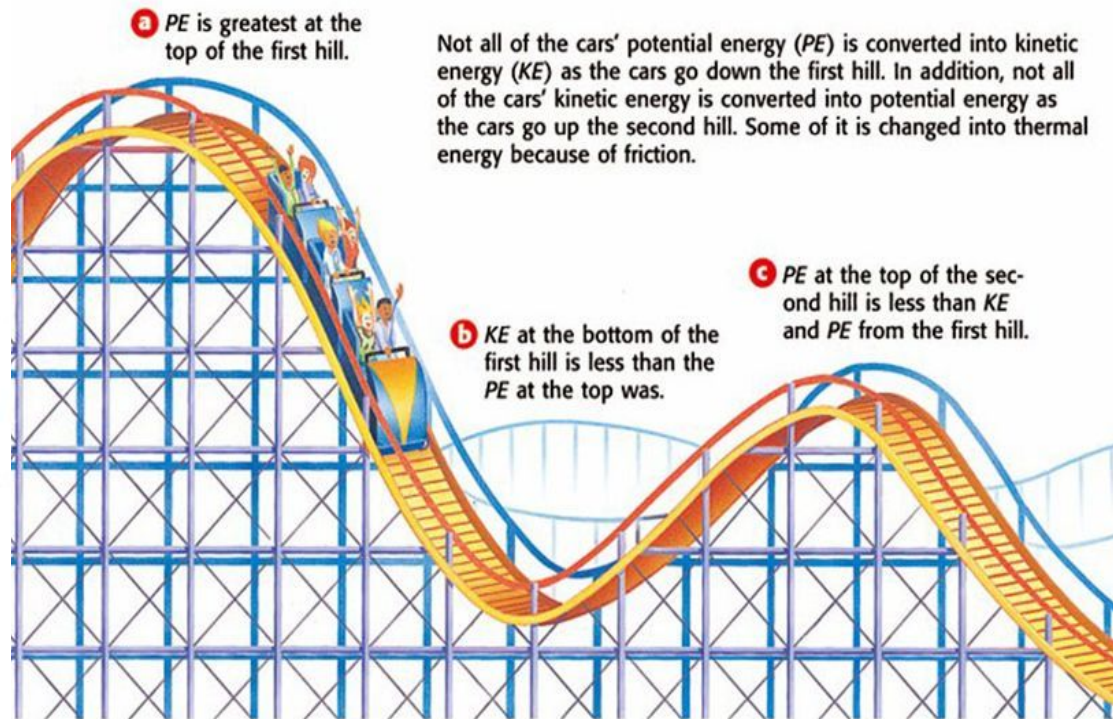
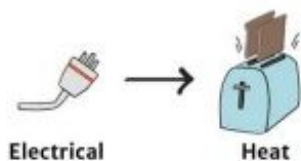
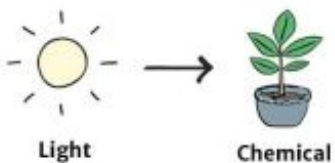
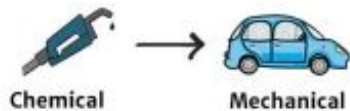
### Light/Radiant:

Energy that can move through empty space.



## Background Information

The Law of Conservation of Energy states energy cannot be created or destroyed, only transferred to a new form.





# Practice

Directions: Match the energy form(s) to the description provided. A few questions may have more than one answer.

- |  |                |
|--|----------------|
| _____ 1. Falling rocks from the top of a mountain    | (a) Mechanical |
| _____ 2. Release of energy from the Sun              | (b) Electrical |
| _____ 3. Energy released from food after it is eaten | (c) Heat       |
| _____ 4. Batteries                                   | (d) Radiant    |
| _____ 5. The energy that runs a refrigerator         | (e) Chemical   |
| _____ 6. Nuclear fission reactors                    | (f) Nuclear    |
| _____ 7. The rumble of thunder from a storm          | (g) Sound      |
| _____ 8. Rubbing your hands together                 |                |
| _____ 9. Gasoline                                    |                |
| _____ 10. Food before it is eaten                    |                |
| _____ 11. Lightening                                 |                |





## Practice - Answer Key

Directions: Match the energy form(s) to the description provided. A few questions may have more than one answer.

- |              |  |                |
|--------------|--|----------------|
| <u>  A  </u> | 1. Falling rocks from the top of a mountain    | (a) Mechanical |
| <u>  D  </u> | 2. Release of energy from the Sun              | (b) Electrical |
| <u>  E  </u> | 3. Energy released from food after it is eaten | (c) Heat       |
| <u>  E  </u> | 4. Batteries                                   | (d) Radiant    |
| <u>  B  </u> | 5. The energy that runs a refrigerator         | (e) Chemical   |
| <u>  F  </u> | 6. Nuclear fission reactors                    | (f) Nuclear    |
| <u>  G  </u> | 7. The rumble of thunder from a storm          | (g) Sound      |
| <u>  C  </u> | 8. Rubbing your hands together                 |                |
| <u>  E  </u> | 9. Gasoline                                    |                |
| <u>  E  </u> | 10. Food before it is eaten                    |                |
| <u>  B  </u> | 11. Lightening                                 |                |

## Practice

Take this [quizzz](#) to test your knowledge over forms of energy.

### TYPES OF ENERGY





## Additional Practice

1. Learn more from Discovery Ed- [Getting to Know: Forms of Energy](#).
2. Complete the read and respond [worksheet](#), then check your [answers](#).
3. Review types of energy in this [Gimkit!](#)