

5th Grade Science

FORMS OF ENERGY

STUDY GUIDE

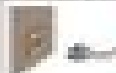




Aligned to Virginia SOL 5.2

Science SOL 5.2: Forms of Energy

Comprehension: Energy can move in different ways, it can be transformed from one form to another, but it cannot be created or destroyed.

Energy is the ability to cause change or do work. Energy can be transferred or cannot move and transform energy.

Table of Contents

| electrical energy | mechanical energy | thermal/light energy | chemical energy | sound energy |
|--|--|---|--|--|
| energy that flows through an electrical circuit | energy in motion | energy in the form of heat or light that we can use | energy in the form of food | energy in the form of vibration |
|  |  |  |  |  |
| <ul style="list-style-type: none"> computer television air conditioning | <ul style="list-style-type: none"> rolling ball moving cart swing in motion | <ul style="list-style-type: none"> heat (solar) light (laser) fire | <ul style="list-style-type: none"> cookies, candy food in stomach gasoline in car | <ul style="list-style-type: none"> radio speakers music whistleblowing |

Classroom Connections

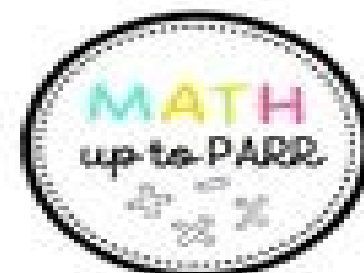
Energy cannot be created or destroyed. However, it can transform. Can you think of an example in which energy transforms from one form to another? A student that uses a flashlight. Electrical energy transforms into light energy. Can you think of another example? A student that uses a hair dryer. Electrical energy transforms into thermal energy.

Energy can move from place to place by using objects, or through sound, light, or electric currents.

Energy can change from one form to another, created or destroyed. It is always found in the different energy transformations and transfer energy. That the knowledge about each aspect use of students can be electrical energy, thermal energy, sound, mechanical energy.

Here are some other examples of energy transformations:

| | | |
|------------------|------------|------------|
| light | heat | and |
| sound/light | sound | mechanical |
| mechanical/sound | thermal | sound |
| sound/light | mechanical | mechanical |



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