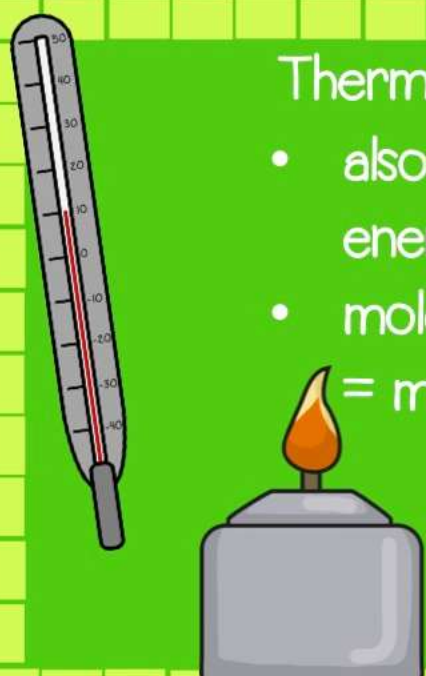


The slide features a bright yellow sun with rays in the upper left and a lit Bunsen burner in the lower left. The background is a green grid pattern.

Light Energy

- travels in waves and in a straight line
- travels through empty space
- natural sources: the sun and fire



The slide features a thermometer on the left and a lit Bunsen burner on the right. The thermometer has a scale from -40 to 50. The background is a green grid pattern.

Thermal Energy

- also known as heat energy
- molecules moving faster = more thermal energy

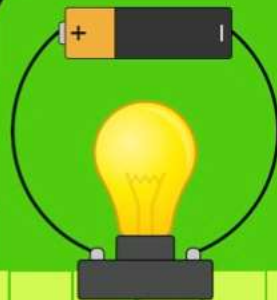
Mechanical Energy

- energy of motion
- kinetic energy: moving object
- potential energy: an object at rest

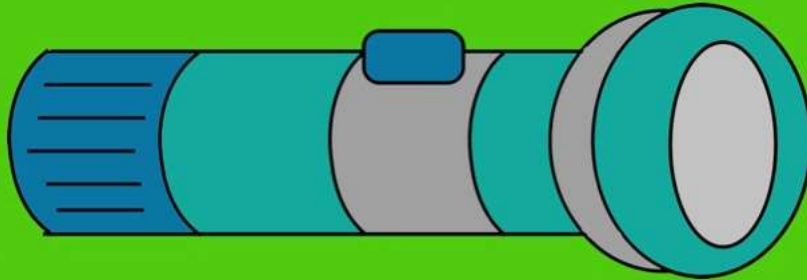


Electrical Energy

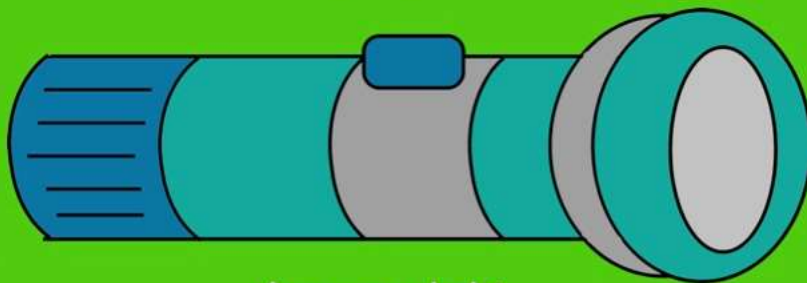
- the movement of charged particles
- produced in power plants from fossil fuels or alternative energy resources



What form of energy does this flashlight produce?



What form of energy does this flashlight produce?



Answer: light

What form of energy does this
bicycle produce?



What form of energy does this
bicycle produce?



Answer:
mechanical

What two forms of energy is this candle producing?



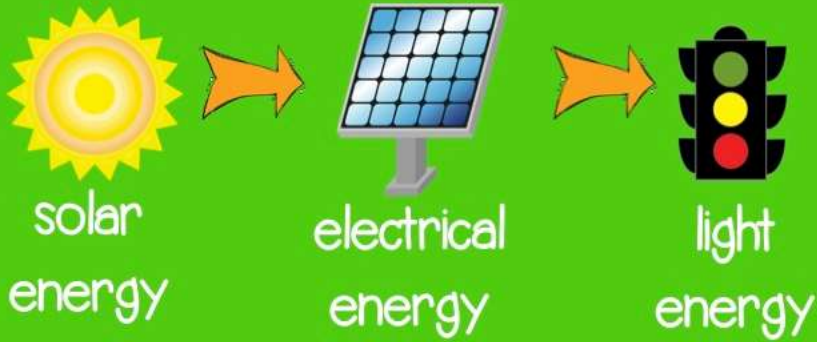
What two forms of energy is this candle producing?



Answer: light
and thermal

Energy can change from one form to another.

Example 1




The diagram illustrates the conversion of energy forms. It starts with a sun icon labeled "solar energy". An orange arrow points to a solar panel icon labeled "electrical energy". A second orange arrow points from the solar panel to a traffic light icon labeled "light energy".

solar energy electrical energy light energy

Energy can change from one form to another.

Example 2

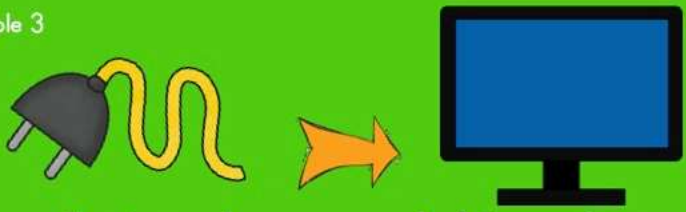


The diagram illustrates the conversion of energy forms. It starts with a battery icon labeled "chemical energy". An orange arrow points to a boombox icon labeled "sound energy".

chemical energy sound energy

Energy can change from one form to another.

Example 3




electrical energy

light and sound energy

The diagram illustrates the conversion of energy. On the left, there is a black electrical plug with a yellow cord, representing electrical energy. An orange arrow points to the right, where a computer monitor is shown, representing light and sound energy.

Energy can change from one form to another.

Example 4



mechanical energy

electrical energy

The diagram illustrates the conversion of energy. On the left, there is a white wind turbine with three blades, representing mechanical energy. An orange arrow points to the right, where a black electrical plug with a yellow cord is shown, representing electrical energy.