

Forms of Energy





*In our previous lesson,
we learned about
kinetic energy and
potential energy.*



There are many forms of energy. This lesson will provide an overview of five (5) forms of energy.



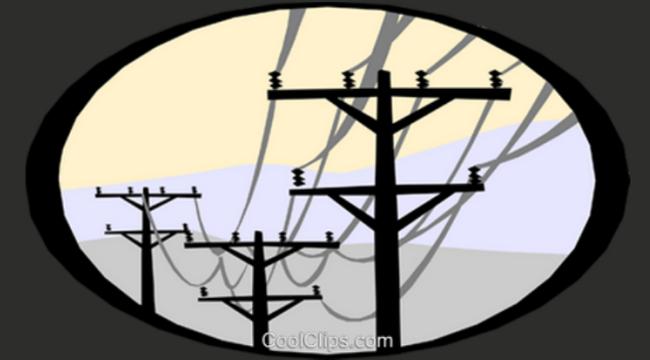
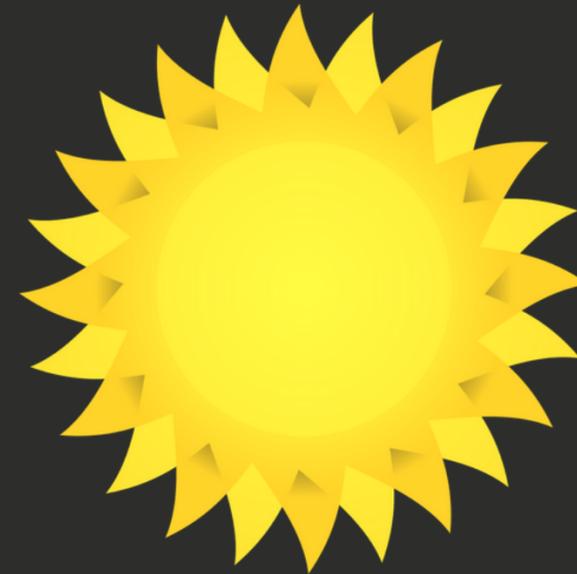
Objective:
I will be able to describe and explain forms of energy, including: sound, light, thermal, mechanical, and electrical.



*Energy is the ability
to do work.*

THINK-PAIR-SHARE

Look at each picture. What kind of energy do you think each object is using?



Sound Energy - energy caused by an object's vibrations

produced by vibrations and travels in waves

does not travel through empty space; must travel through matter

Examples

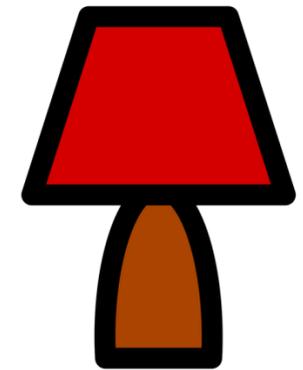
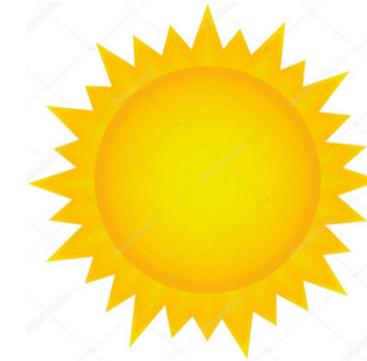


Light Energy - energy in the form of moving waves of light

Examples

travels in waves of light particles that move up and down

travels through empty space; can be absorbed, transmitted, or reflected



Thermal Energy - the total energy of motion in the particles of a substance

also known as
heat energy

flows from the
warmer object
to the cooler
object

Examples

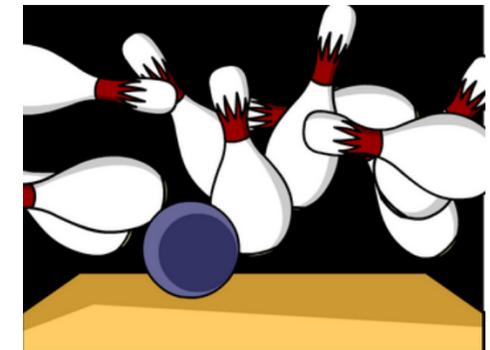


Mechanical Energy - the energy associated with the motion and position of everyday objects

energy that an object has because of its motion

can be kinetic (in motion) or potential (waiting) energy.

Examples

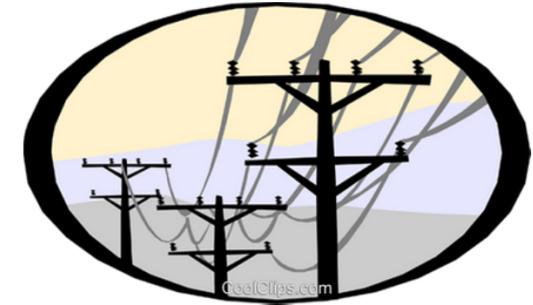


Electrical Energy - the energy of electric charges

Examples

carried by an electrical current

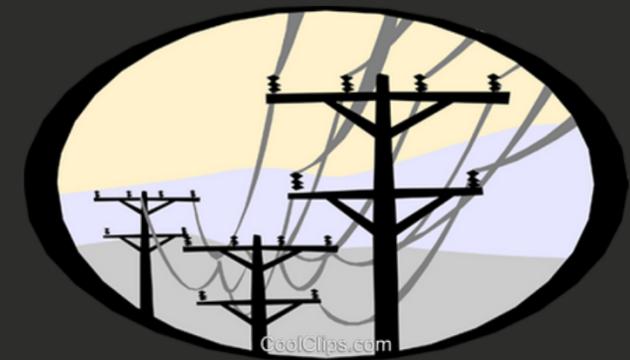
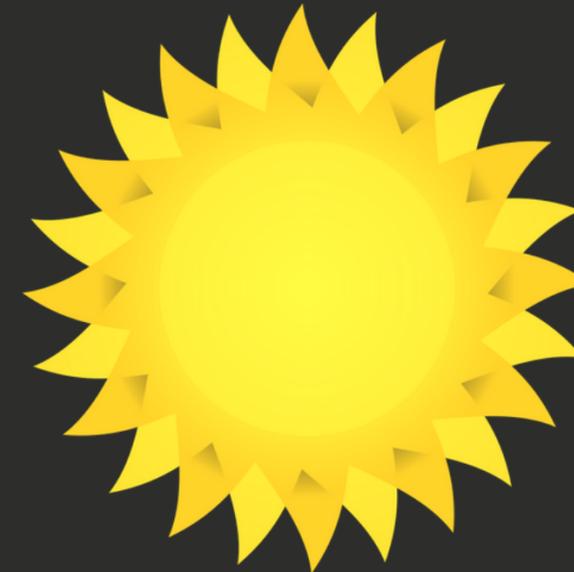
produced in power plants from fossil fuels or alternative energy resources



THINK-PAIR-SHARE

Look at each picture. What kind of energy is each object using?

Refer to your notes as needed to provide evidence.



3-2-1 Exit Ticket

Respond to the following:

3 things in your home that use electrical energy

2 things in your home that use light energy

1 question you still have about forms of energy