

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.

Use Cornell Notes to record important information.

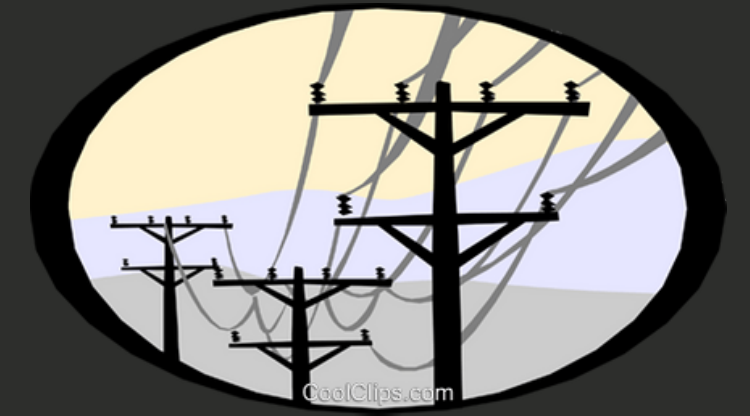
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| CORNELL NOTES SHEET | Name: _____ Date: _____ Period _____ |
| Forms of Energy | |
| TOPICS/QUESTIONS | NOTES |
| What is energy? | |
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| What is sound energy? | |
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| Examples of sound energy | |
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*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

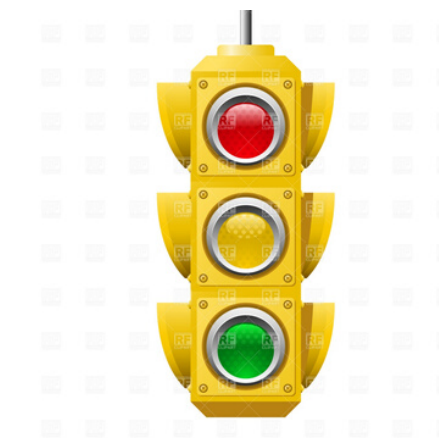
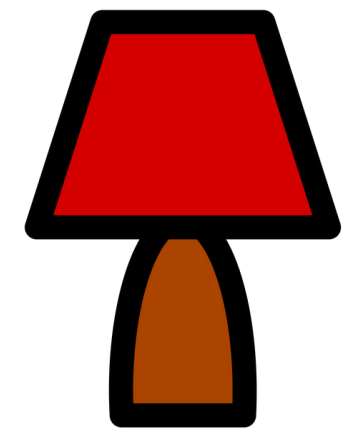
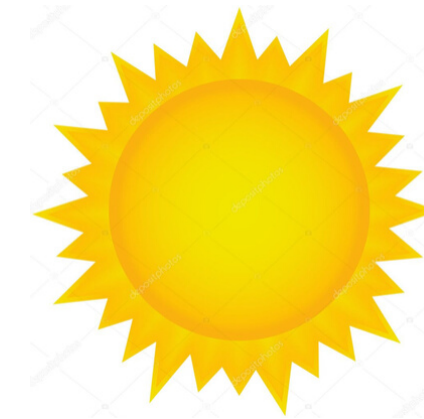


Light Energy - energy in the form of moving waves of light

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

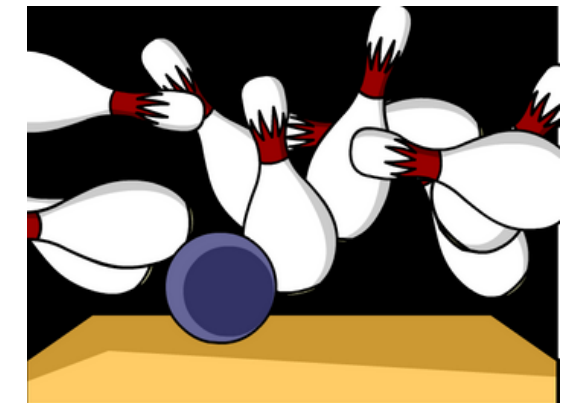


Mechanical Energy - the energy associated with the motion and position of everyday objects

energy that an object has because of its motion

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

Examples

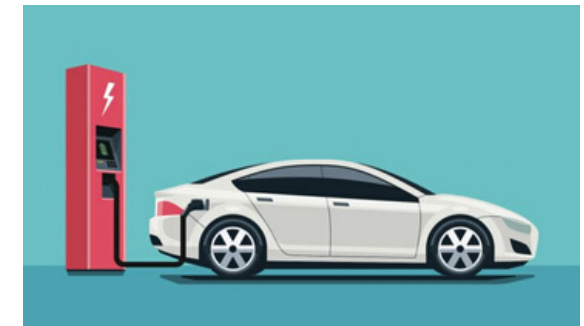
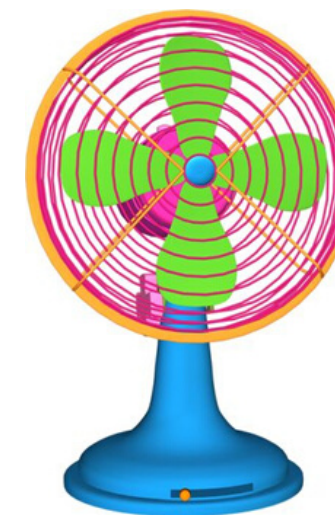
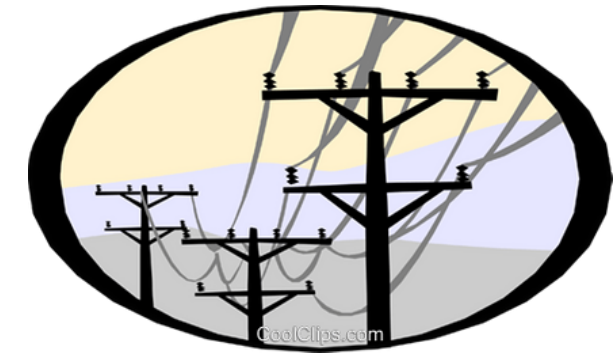


Electrical Energy - the energy of electric charges

carried by an
electrical
current

produced in
power plants
from fossil
fuels or
alternative
energy
resources

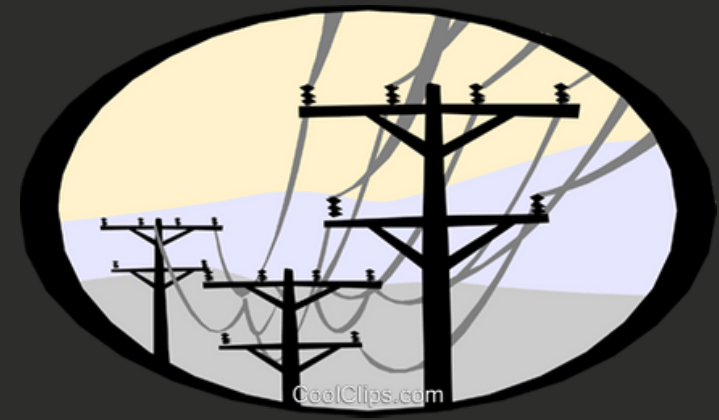
Examples



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