

Topic: Conservation of Energy

Think a Ton!!



1. Is there a way to get free energy?
2. What will happen if we are completely out of energy?
3. Can the energy of our body be used for generating electricity for the whole house?
4. Can we live without electricity?

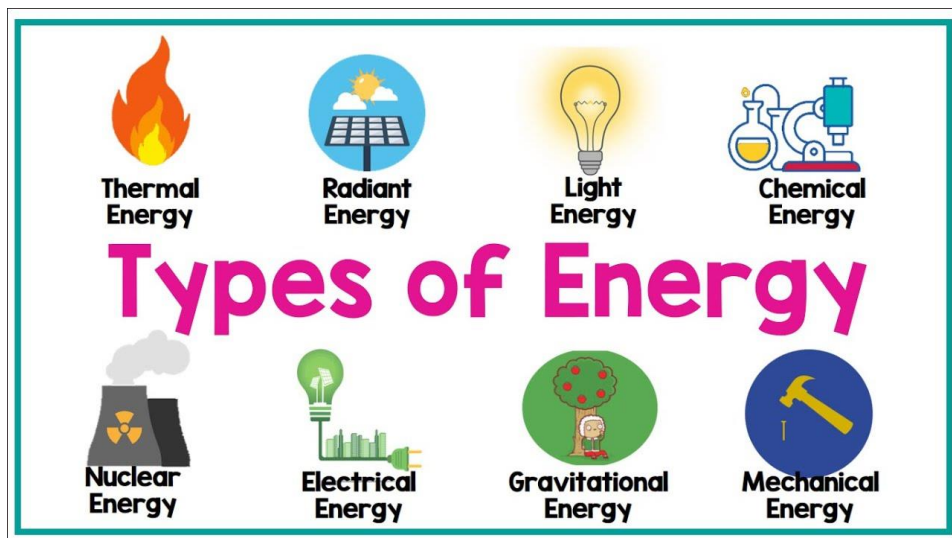
-----Know what's inside-----

Activity	Description
Engage	Understand what Energy is and how it is been used in our lives
Explore	Learn more about different ways to conserve energy
Elaborate	Make a small trophy for yourself because you are an energy warrior
Explain	Understand the difference between energy conservation and efficiency
Evaluate	Test your understanding here.

ENGAGE

Know to question; Question to know!!

1. What are renewable and nonrenewable energy?
2. Why is it necessary to conserve energy?



EXPLORE

Activity 1: Observation and conclusion:

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Activity 2: Observation and conclusion:

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Activity 3: Observation and conclusion:

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ELABORATE: I AM AN ENERGY WARRIOR

A. Materials Required:

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B. About this Project

It is time that we come together and conserve energy. This project is a small trophy for the kids which will remind them that they are young energy warriors and they are supposed to do whatever it takes to make this world a better place by conserving as much as energy possible.



C. How does it work?

The project consists of a small electrical circuit containing a battery and led placed in an MDF setup. The upper part of the project is an acrylic sheet with the engraving "I am an Energy Warrior".

The circuit is simple and easy and in order to turn on or off the project light one simply needs to connect the two washers together or remove them respectively.

It is better to see it in a dark room. Make sure to turn it off when not in use to CONSERVE ENERGY!

It's a reminder to switch off electrical appliances when not in use.

EXPLAIN

What is energy?

1. Energy is a big word that refers to the ability to make things happen.
2. It is what makes things move and change.
3. There are many different types of energy, including heat energy, light energy, and energy that is stored in things like food and gasoline.
4. Some forms of energy can be converted into other forms, like when we burn wood to make heat or when we use a battery to make electricity.
5. But no matter what form it takes, energy is always around us and is always making things happen!

What are the Sources of energy?

6. **Renewable energy** is a type of energy that comes from sources that can be replenished, or renewed, over and over again.
Examples of renewable energy include wind, solar, and hydroelectric power.
7. **Non-renewable energy**, on the other hand, comes from sources that cannot be replaced once they are used up, such as fossil fuels like coal, oil, and natural gas.

Why is it necessary to save energy?

8. There are several reasons why it is necessary to save energy. One reason is that many of the sources of energy that we use, such as fossil fuels, are non-renewable, which means that they will eventually run out.
9. If we use energy wisely and try to conserve it whenever possible, we can help to preserve these resources for future generations.
10. Another reason to save energy is that many forms of energy production, such as burning fossil fuels, release greenhouse gases into the atmosphere, which can contribute to climate change.

11. By using less energy, we can help to reduce these emissions and protect the environment.
12. Finally, using energy efficiency can save money on energy bills, which can help individuals and businesses save money.

How to Save/ Conserve Energy



EVALUATE

1. Find the words

Energy conservation

T	N	E	M	N	O	R	I	V	N	E	F	L	S
C	O	N	S	E	R	V	A	T	I	O	N	I	L
E	N	R	N	E	Y	G	R	E	N	E	B	G	I
L	N	N	C	L	C	F	N	C	V	T	E	H	A
E	Y	L	I	S	S	O	F	O	I	C	B	T	E
C	Y	I	E	E	F	F	I	C	I	E	N	T	N
T	I	R	E	N	E	W	A	B	L	E	A	V	E
R	U	E	Y	R	I	T	W	A	S	T	E	V	T
I	G	S	M	A	R	T	O	C	R	R	Y	F	H
C	N	H	A	E	S	T	C	C	R	O	H	S	E
I	A	V	S	L	F	F	E	V	A	S	I	U	R
T	O	S	S	C	C	N	U	T	A	I	V	N	M
Y	C	S	O	U	R	C	E	E	E	U	M	E	A
Y	S	A	L	N	E	A	I	E	L	R	R	R	L

Energy

Renewable

Source

Nuclear

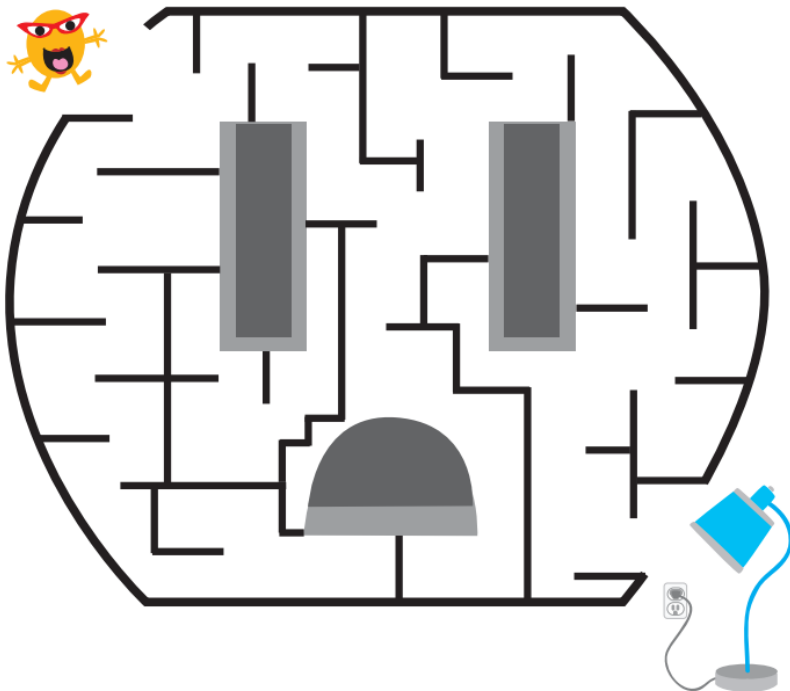
Conservation

Thermal

Electricity

Save

2. We have learned that electronic appliances use electricity even when they are switched off. It's always better to unplug all the appliances if they are not in use. Help Ms. Energy saver to reach to the lamp and unplug it.



3. Unscramble the words below

RGNEYE

ORCSRESUE

ENLERABEW

ESVA
