Science

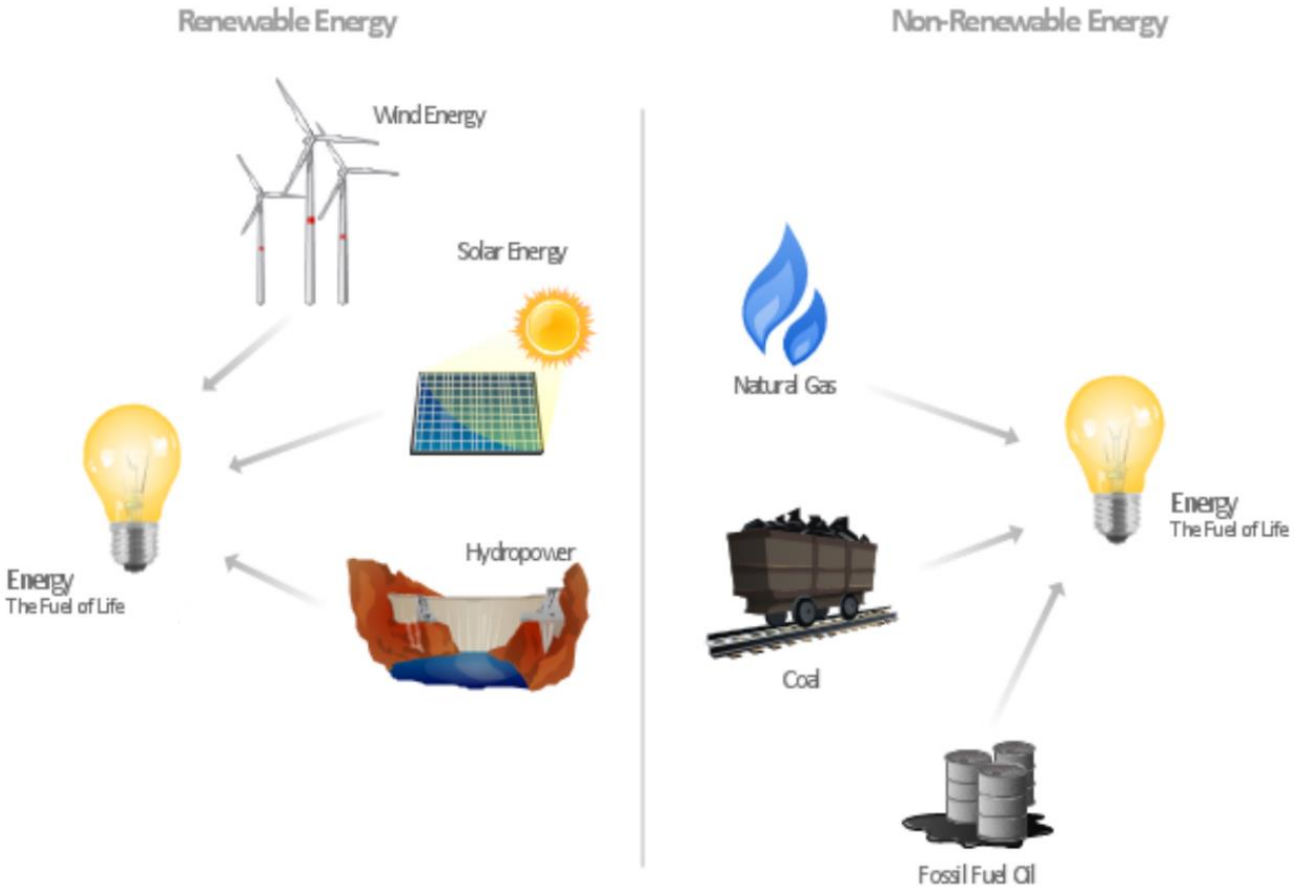
Level: Standard 2

Strand: Conservation and Sustainability

Topic: Non-renewable and renewable sources of energy

Key Points:

- Crude oil, coal and gas are examples of fossil fuels.
- They are non-renewable, finite resources as once they have all been used up, they cannot be replaced.
- Renewable energy comes from natural sources that replenish themselves and never get exhausted in mankind's life spans.
- Wind energy, solar and hydroelectric are examples of renewable energy.
- They also tend to be clean energies that do not pollute.



Activity 1:

Use the chart below to classify each resource as renewable or nonrenewable.

Renewable	Nonrenewable

NATURAL GAS

TREES AIR WATER

OIL WIND SUN

Activity 2:

WORD SEARCH

Find all the words related to saving energy!

R Y T L P C A E O N B C Y H N
S A I N E N E R G Y O W C S J
Y O O S E Q H Q O N A G N A N
W O L D E M M T S X L X E G S
E L B A W E N E R N O N I E U
B D M R R G R O Y L H E C W T
M L N X J V O U R I Z R I J N
U V J I A F F N V I U Q F Q B
O F P T W N T J S O V G F J X
I M I N F G N A S N W N E G H
H O L A O C V E V Q A G E X N
N H K G D E R P J C T V B K C
W D Z K C G N I X F E K G L V
H X X N M T E P Y S R U N Z D
A N W Y J K C G Z M G T T F Z

ENERGY	WIND	EFFICIENCY	RESOURCES
ENVIRONMENT	COAL	NONRENEWABLE	SAVE
GAS	CONSERVATION	OIL	SOLAR
WATER			

Assessment:

1. What are non-renewable energy sources extracted from the earth, such as crude oil, natural gas and coal called?

   _____

2. What type of renewable energy uses solar cells to capture the sun's energy?

   _____

3. What type of renewable energy source uses propellers with turbines?

   _____

4. Hydro electricity is produced by

   _____

5. What are the reasons for conservation of energy?

   (a) Conservation of energy reduces air pollution

   (b) The demand for energy is increasing due to use of machines

   (c) Fossil fuels are non-renewable

   (d) All of these

6. Which one of the following does NOT conserve energy?

   (a) Recycling

   (b) Turning off electrical appliances when not in use

   (c) Building more power plants to supply more electricity

   (d) Using energy efficient machines

Answer key:

Activity 1:

Renewable	Nonrenewable
Air	Natural Gas
Wind	Oil
Sun	
Water	
Trees	

Activity 2:



Assessment:

1. Fossil Fuels
2. Solar energy
3. Wind energy
4. Water flowing
5. (d)
6. (c)

References:

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- https://wordmint.com/public_puzzles/74567