

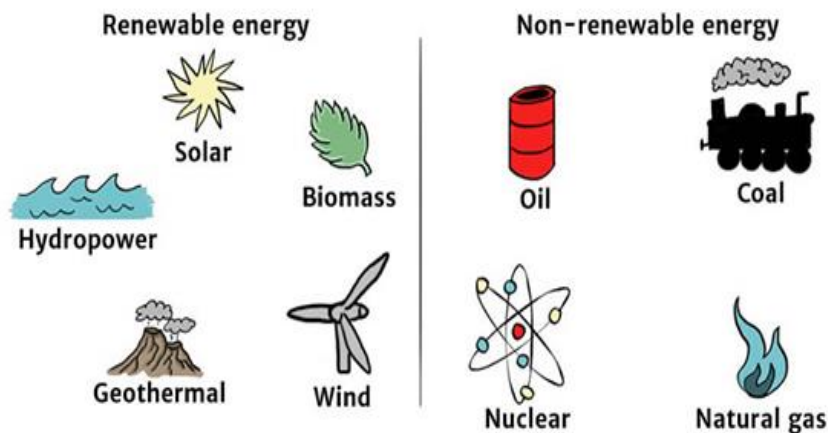
Chapter- 9

Natural Resources

STUDY NOTES

- There are many valuable things in nature that are necessary for us to live on this Earth. Example- air, water, soil, forests, animals and minerals.
- Renewable resources-
 - a. resources those will either never run out (for example, the sun) or are constantly renewed by natural processes (for example, water is renewed by rain).
 - Non-renewable resources-
 - b. resources those which once used up, are exhausted and are either not renewed by nature, or renewed very slowly over millions of years.
 - c. for example- coal and petroleum, and minerals like gold, iron and copper.

Renewable and Non-Renewable Energy Sources



JP



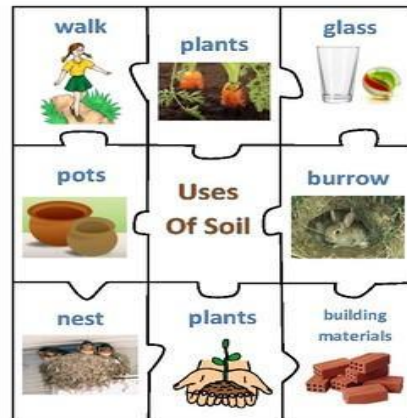
Soil

- Soil is the loose uppermost layer on the Earth's surface.
- Plants grow in soil.
- They get water and mineral salts from the soil.
- Since plants make food for all living things, all living things depend on soil for food.
- Many animals live in the soil.
- Insects such as earthworm and ants, and bigger animals such as mice and rabbits, live in the soil.

- Humans depend on the soil for many things.

Uses of soil

- We grow different kinds of cereals, vegetables and fruits in the soil.
- We use soil to make buildings materials such as bricks and cement.
- We use clay obtained from the soil to make pots and utensils.
- Soil is an important renewable natural resource.



Water

- Water is a renewable natural resource essential for life.
- Humans, animals and plants all need water to live.
- We need water to drink, bathe, wash, irrigate fields and for many other purposes.
- Water is a precious resource.
- We should not waste water.



USES OF WATER



Forest

- Forest is a large area of land where there is a thick growth of trees and other plants.
- In a forest, plants grow on their own.
- The kinds of plants that grow in a forest depends on the climate and soil of that place.

Uses of forest

They provide us

- Wood
 - Medicines
 - Paper
 - Oxygen
-
- To save a forest, trees should be cut in a planned way.
 - For every tree cut, several new trees should be planted, so that the forest cover is not reduced.



Changing your Tomorrow

Animals

- Animals raised by us for our use are known as livestock.
- They are useful to us in many ways and are important natural resource for us.
- Some animals are raised by humans are cattle.
For examples:
 - Cows
 - Buffaloes
 - Sheep
 - Goat
 - Camel
 - Hens
 - Duck
 - Fish
 - other water animals



Minerals and Fuels

- Rocks on the earth are made up of substances called minerals.
- Minerals are another important natural resource.
- The minerals obtained from the Earth are in an impure form.
- They are purified and used to make a number of things.
- We get metals such as:
 - Iron
 - Copper
 - Aluminium
 - Gold
 - Silver
- These are shiny as well as hard.
- We also get other substances such as diamonds, mica and limestone from minerals.
- Fuels such as petrol, diesel, natural gas and coal are also obtained from the Earth.
- Petrol, diesel and natural gas are obtained from petroleum.
- The mineral resources on the Earth are non-renewable.
- Once used up they will not be available to us anymore.
- Minerals such as coal and petroleum, which give us fuels for providing energy, are being used up rapidly.
- We should use these resources carefully and not waste them.
- To save these minerals we should depend more on sources of energy that will never get used up.
- For example- Solar energy and Wind energy



Let's Know More

I. Fill in the blanks.

1. Groundwater is located beneath the earth, between _____.
2. We can use water as a natural resource to make _____.
3. Full form of LPG is _____.

Let's Do

A. Fill in the blanks.

1. Plants get _____ and _____ from the soil.
2. Sunlight is a _____ natural resource.
3. Coal, petrol and diesel are known as _____.
4. _____ hard and shiny substances obtained from minerals.
5. Petrol and diesel are obtained from the mineral _____.

B. Write T for true and F for false sentences.

1. Natural resources are both living and non-living
2. Water is a non-renewable resource.
3. Humans have planted trees to make forests on the Earth
4. Cattle is a non-renewable resource.
5. Mineral resources will never get exhausted as they are being continuously made under the Earth.

C. Understand and Answer:

1. What are natural resources? Name four natural resources.
2. What is the difference between renewable and non-renewable resources?
3. List four uses of soil. Which use, in your opinion, is the most important?

4. Name four products that we get from forests.
5. Name two metals and two other substances that we get from minerals.
6. Name two minerals from which we get fuels.
7. Why is it important to save minerals such as coal and petroleum?

D. Multiple choice questions.

1. Which of these resources will not run out because they are constantly renewed by nature in a reasonable amount of time?
a. gold b. petroleum c. coal d. plants
2. Which of these will get exhausted because nature takes a long time to renew them?
a. Forests b. animals c. coal d. water
3. Forests provide us with:
a. Oxygen b. paper c. medicines d. all of these
4. Which of the following sources of energy will always be available to us?
a. solar energy b. petroleum c. natural gas d. coal

Teacher's Note

- Is electricity a natural resource? Give reasons.

Improve Your G.k

- The 3 R helps us to reduce the amount of waste we throw away.
- Fossil fuel comes from organic matter that has been decomposed and compressed by the heat and pressure within the Earth's crust. This organic matter comes from animals and plants from the past. Natural gas and oil are formed over time and then extracted for use.

Answer Key**I. Fill in the blanks:**

1. soil and rocks
2. electricity
3. liquefied petroleum gas

A. Fill in the blanks.

1. water, mineral salts
2. renewable
3. non-renewable
4. metals
5. petroleum

B. Write T for true and F for false sentences.

1. True
2. False
3. False
4. True
5. False

C. Understand and Answer

1. There are many valuable things in nature that are necessary for us to live on this Earth are known as natural resources.
- 2.

Renewable resources	Non-Renewable resources
Those resources that will either never run out or constantly renewed by natural processes.	Those resources which once used up, are exhausted and are either not renewed by nature or renewed very slowly over millions of years.

Example - Sun, Water	Example - Coal, Petroleum
----------------------	---------------------------

3. Four uses of soil are:

- Soil is used to make building materials such as bricks and cement.
- Soil is home for many big and small animals.
- Soil is used to grow crops.
- Soil is used to make pots and utensils.

4. Four products that we get from forests are:

- wood
- paper
- medicine
- oxygen

5. Two metals that we get from minerals are:

- gold
- silver

Other substances from which we get minerals are:

- diamonds
- limestone

6. Two minerals from which we get fuels are:

- Coal and Petroleum

7. It is important to save minerals such as coal and petroleum because these minerals resources are non-renewable, once used up it will not be available to us anymore.

D. Multiple choice questions.

- d. plants
- c. coal
- d. all of these

4. a. solar energy

