



## INDIAN SCHOOL AL WADI AL KABIR



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|-----------------------------|----------------------------------------------|-----------------------------|
| <b>CLASS: VI</b>            | <b>DEPARTMENT: SCIENCE</b><br><b>2024-25</b> | <b>DATE: 03-09-2024</b>     |
| <b>TEXTBOOK Q &amp; A</b>   | <b>TOPIC: NATURE'S TREASURES</b>             | <b>NOTE: A4 FILE FORMAT</b> |
| <b>NAME OF THE STUDENT:</b> | <b>CLASS &amp; SECTION:</b>                  | <b>ROLL NO.</b>             |

1. Fig. 11.9 shows items related to natural resources. Match them with their jumbled-up names. Make another table and write the names of these resources. Classify these resources as renewable or non-renewable.

| Item                                                                                | Jumbled up name |
|-------------------------------------------------------------------------------------|-----------------|
|   | ocrk            |
|  | refost          |
|  | ndiw            |
|  | atwre           |

Fig. 11.9: Natural resources

| Jumbled up name | Name of the Resource | Type of Resource |
|-----------------|----------------------|------------------|
| ocrk            | rock                 | Non-renewable    |
| refost          | forest               | renewable        |
| ndiw            | wind                 | renewable        |
| atwre           | water                | renewable        |

2. State whether the following statements are True [T] or False [F]. If False, correct them.

(i) Nature has all the resources to meet human needs. [ T]

(ii) Machines are a resource found in nature. [ F]

**Machines are human-made resources.**

(iii) Natural gas is a non-renewable resource. [ T]

(iv) Air is a renewable resource. [ T]

3. Fill in the blanks using the most appropriate option—

(i) A fuel that is commonly used in two-wheelers like scooters or bikes is.....

(a) Kerosene

(b) Petrol

(c) Diesel

(d) LPG

**[Hint: (b) Petrol]**

(ii) An example of a renewable resource is .....

(a) Coal

(b) Water

(c) Natural gas

(d) Petrol

**[Hint: (b) Water]**

4. Classify the following as renewable or non-renewable resources—coal, natural gas, forests, and minerals.

**[Hint: Coal – Non-renewable**

**Natural gas – Non-renewable**

**Forests – Renewable**

**Minerals – Non-renewable]**

5. Why do we say that petroleum is a non-renewable resource?

**[Hint: Petroleum is considered as a non-renewable resource because it takes millions of years for its formation from the remains of microorganisms and plants that get buried deep inside the Earth. Once extracted and used, it cannot be replenished.]**

6. It is difficult to regrow forests. Justify this statement.

**[Hint: It takes many years to grow a new forest or restore lost forests. Due to deforestation, the soil may become degraded, losing its nutrients and structure making it less suitable for new plant growth.]**

7. Make a list of five daily activities in which you use natural resources. Suggest ways by which you can reduce their use.

| Daily Activity    | Natural Resource used | Ways to reduce their use        |
|-------------------|-----------------------|---------------------------------|
| Cooking           | Natural gas           | Use solar cooker                |
| Taking shower     | Water                 | Use water saving shower head    |
| Using Paper       | Trees (Forest)        | Use digital documents           |
| Using electricity | Coal and Natural gas  | Use energy efficient appliances |
| Driving a car     | Petroleum             | Use public transport or carpool |

8. List four activities that are possible due to the presence of air.

[Hint: (i) Breathing

(ii) Generating electricity through wind turbines

(iii) Inflating balloons

(iv) Flying kites]

9. How can you contribute towards enhancing the green cover of your locality? Make a list of actions to be taken.

[Hint: i) Planting trees and shrubs in the neighbourhood.

ii) Protecting existing trees from being cut down.

iii) Participate in community tree planting drives.

iv) Creating awareness among the public.

v) Collaborate with school nature club to create green initiatives.]

10. In the given illustration, we see that food is being cooked. Answer the following questions—

(i) What type of energy is being used for cooking?

[Hint: Solar energy]

(ii) Name one benefit and one drawback of using this type of energy for cooking.

[Hint: Benefit- Solar energy is renewable and a clean source of energy.

Drawback- The manufacturing cost of solar cookers is high and it cannot be used on cloudy days.]



11. Cutting down trees on a large scale impacts the quality of the soil. Why do you think it is so?

[Hint: Cutting down trees on a large scale impacts the quality of the soil as the roots of plants hold onto the soil and prevent it from being washed away. Moreover, the leaves that fall from the trees decay and enrich the soil with nutrients. Without trees, the soil becomes loose and can easily be washed away by rain or blown away by wind, leading to loss of fertile topsoil.]

12. Explain two ways in which human activities pollute the air. Propose one action that can help in reducing air pollution.

[Hint: Air pollution is caused by:

i) Emission of pollutants from vehicles.

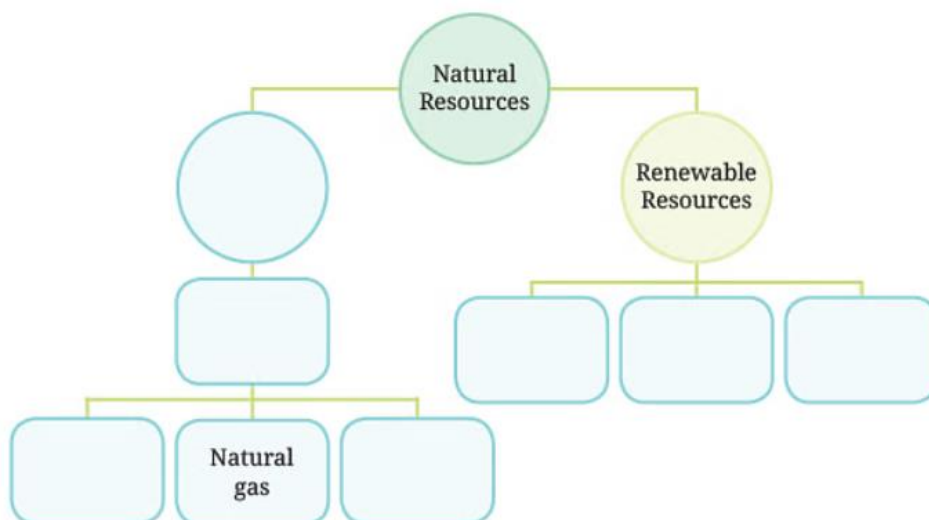
ii) Industrial emissions releasing harmful gases.

Action to reduce air pollution: Promote the use of public transport and electric vehicles to decrease the number of fossil fuel-powered vehicles on the road.]

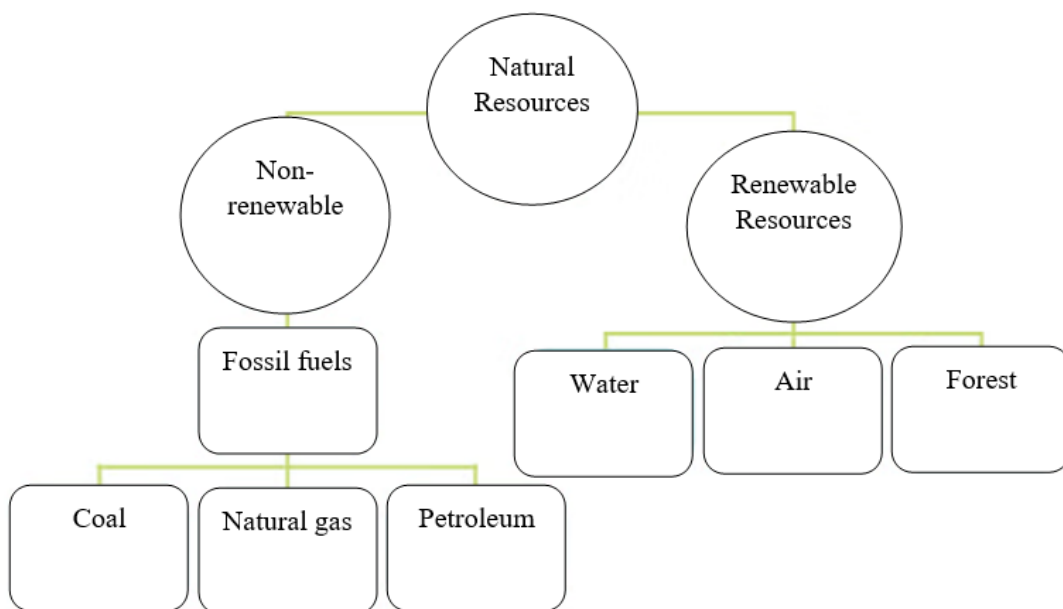
13. A family uses solar panels to generate electricity, a gas stove to cook food, and a windmill for pumping water from a well. What would happen if there were no sunlight for a week?

[Hint: If there were no sunlight for a week, the family would face issues with generating electricity through solar panels, which would affect their power supply. They might need to rely on alternative sources of energy for electricity.]

14. Fill up the blanks using the following terms— (fossil fuels, forest, air, petroleum, coal, water, and non-renewable resource)



[Hint:



15. There is an increasing demand of trees to meet the requirements of industries and for housing. Therefore, trees are being felled. Is it justified? Discuss and prepare a brief report.

[Hint: The increasing demand for trees to meet the requirements of industries and for housing leads to deforestation, which cannot be justified. The loss of trees and other vegetation can cause destruction of natural habitats, an increase in the earth's temperature, climate change, desertification, fewer crops, flooding, and soil erosion. Therefore, sustainable practices and reforestation should be adopted to balance the development needs with environmental conservation.]

16. Propose a plan to use less water in your school. What steps would you take to make this plan happen and how would it help the environment?

[Hint: Plan- i) Promote awareness among students about the importance of water conservation.

ii) Reuse wastewater from handwashing for gardening.

Steps- i) Monitor water usage regularly and set reduction targets.

ii) Encourage student-led initiatives for water conservation.

Environmental benefits- Promotes sustainability and responsible water usage within the community.

Prepared by

Ms Neena Alex

Checked by

HoD Science