



FEDERAL DIRECTORATE OF EDUCATION

Summer Vacation Task

General Science---Class-IV

**SESSION
2023-24**



www.fde.gov.pk

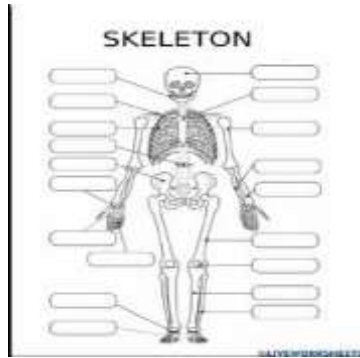
Summer Vacation Homework

Class IV

General Science

- 1. Collect pictures of animals (vertebrates and invertebrates) and paste them in your scrap book.**
- 2. Differentiate between vertebrates and invertebrates with examples.**
- 3. Observe in your house and surrounding flowering and non-flowering plants. Write down your observation in terms of colour of flower, shape of flower, leaves, and presence or absence of flowers.**
- 4. Draw structure of flowering and non-flowering plants based on your observations and list down main similarities and differences.**
- 5. Imagine you wake up in the morning and looked out of the window. You saw that all the plants have dried up.**
 - a) What will happen next?
 - b) How this situation effects animals?
 - c) What steps you will take to improve the situation?
 - d) Write a story of the above situation with the following hints:
 - i. beautification of the environment and plants
 - ii. Plants as food for animals
 - iii. Importance of plants in providing oxygen
 - iv. Forests and rainfall
 - v. Need of water and oxygen for the existence of living things
 - vi. Draw/sketch your favourite animal with its differentiating characteristics.

6. The following picture shows the human skeleton:



- label the parts of skeleton and write in boxes.
- What are the three main jobs a skeleton performs for our body?
- What will be the shape of the body if there will be no skeleton in our body?
- Explain why healthy food is important for our bones?

Project Work (1)

Make a model of human skeleton by using matchsticks.

7. Define ecosystem. List down the types of ecosystem.

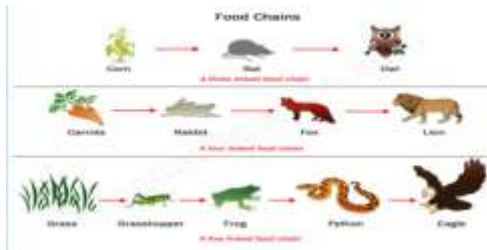
8. Collect pictures of different ecosystems and paste in scrap book.

9. Look at the picture of ecosystems given below:



- Which human activities can destroy land and water ecosystems?
- How deforestation effects ecosystems?
- What is pollution?
- How pollution is dangerous for sea.animals?

10. The diagram below shows food chains:



- What do arrows indicate in these food chains?
- What is the role of grass, corn and carrots in food chains?
- What would happen to the fox population if

rabbit became extinct?

- List down herbivores, carnivores and omnivores animals in the food chains shown above.

Project Work(2)

Make a model of 3 food chains by using plastic plants and animals.

11. Define balanced diet. List down components of a balanced diet?

12. Look at the picture of food pyramid:



- Label the parts shown in the diagram.
- List down names of diseases (3 each) caused by deficiency of components of food shown above.
- Plan a daily healthy diet plan (use chart paper) including breakfast, lunch, and dinner and strictly follow it along with your family members.
- Why drinking clean water is important for our health?
- Covid-19 has badly affected the whole world. List down ten key lessons learnt from covid-19 humans all over the world..
- Sketch before and after Covid-19 situation of world in your scrap book.

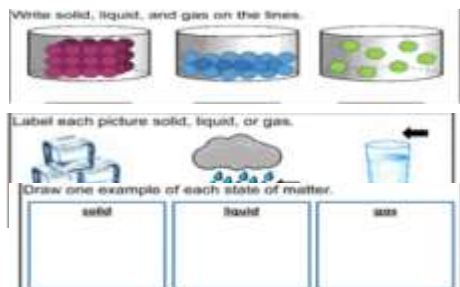
g. Design a menu for your lunch box. Give reasons: why were these items chosen?

Project Work(3)

- Search from internet how level of drinking water is decreasing in the world
- Sketch/draw picture of world with and without water.

13. Define matter and its characteristics.

14.Look at the pictures of states of matter and answer the questions:



- a) What are the three states of matter?
- b) Which state holds its own shape?
- c) What do you know about a gas's molecule?
- d) Which state of matter takes the shape of container?
- e)What do you know about a solid's molecule?
- f) Name three solids, liquids and gasses.

Project Work (4)

Collect/Draw pictures of solids, liquids and gas materials and paste on chart paper with three qualities of each states of matter.

14.Define energy and its types.

15.What is energy transformation and why is it important?

16. Look at the pictures transformation of energy and answer the questions:



- What is conservation of energy? List down ways of saving energy at home?
- Explain transformation of energy with the help of a diagram. How transformation of Energy takes place in hydroelectric Dam?
- Write down five ways of using electricity safely.
- Identify forms of energy in the picture below:
- Why saving electricity and gas is important?
- Discuss with your family importance of saving energy. Assign duties for saving energy to your family members.

Project Work (5)

Create a poster of showing energy saving and share with your friends

