

Basic Science

Time 2 hours

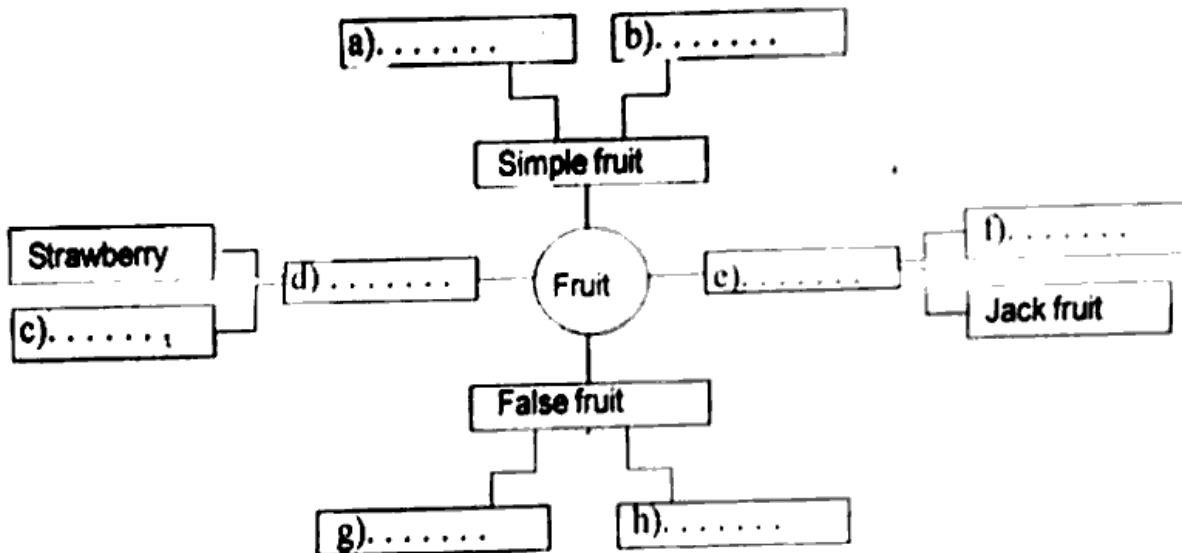
Class 6

Instructions

1. 15 minutes cool off time is given for reading the questions.
2. Ten activities are given.
3. Answer any eight activities.

Activity 1

A) Complete the concept map given below.



B) Write any one difference between aggregate fruit and multiple fruit

Activity 2

Some situations of motions are grouped below. Observe them.

• Rotation of a top  
• Draws a circle using compass

Group (1)

• Rotation of Earth.  
• Motion of an ox around an oil press.

Group (2)

• Lift going up  
• Motion of a bullet

Group (3)

- Find out the group which has the right pair.
- Rearrange the other two groups correctly and name each group. Write the common features of each group.

### Activity 3

A) Pair the following appropriately.

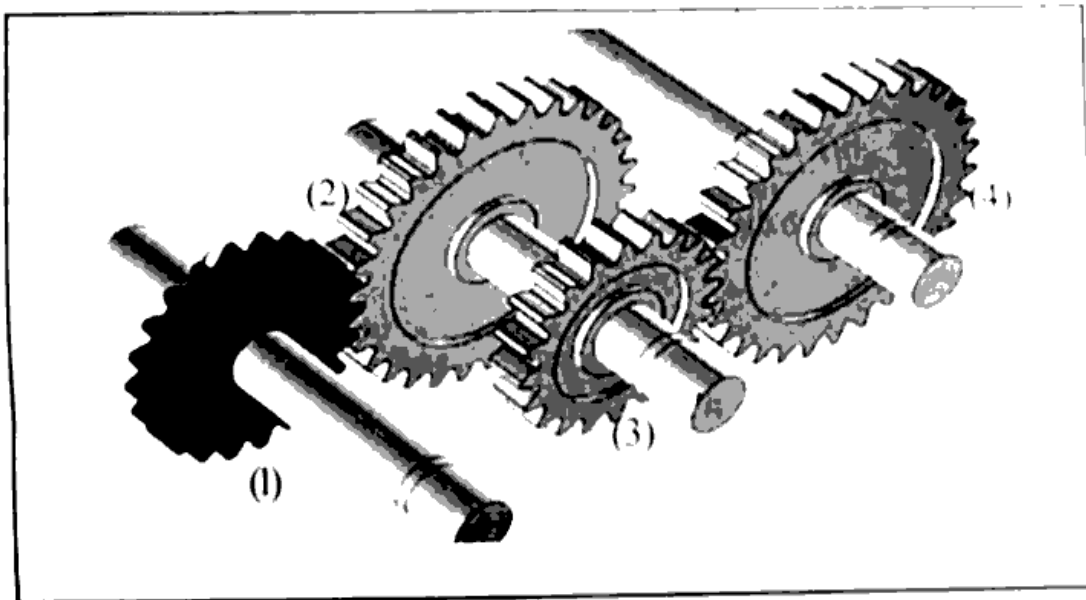
Lodestone	Neodymium	Artificial magnet	Natural magnet
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B) Write any one feature of magnets.

C) Design a toy using magnet, iron piece, thermocol, cardboard, thread etc. Explain how it functions.

### Activity 4

Observe the arrangement of gears in the figure.



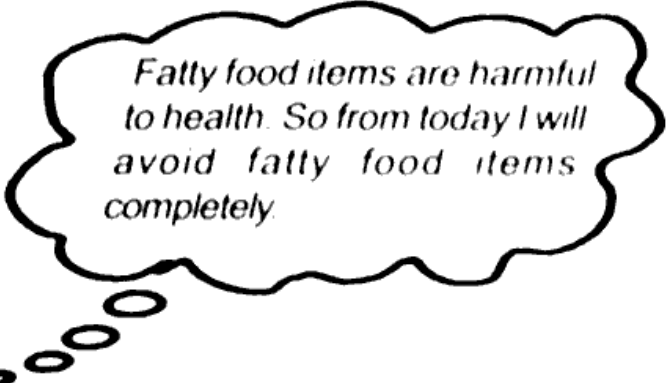
A) Find out the correct statements related to this arrangement from the given list. Write them

- The second gear rotates in the opposite direction of the first gear.
- The third and the first gear will rotate in the same speed.
- The direction of the fourth gear and the first gear will be the same.
- The second and third gears will have the same speed.
- The fourth and third gear rotate in the same speed.

B) Write any two advantages of using gears in a machine.

### Activity 5

Opinion of a child is given below. Read it.



*Fatty food items are harmful to health. So from today I will avoid fatty food items completely.*



- A) Do you agree with this decision? Justify
- B) How will you detect the presence of fat in a food item?
- C) What is the normal level of cholesterol in a human body?
  - i) 70 - 110 mg/dl
  - ii) Up to 200 mg/dl
  - iii) 50 - 100 mg/dl
  - iv) Above 25 mg/dl

### Activity 6

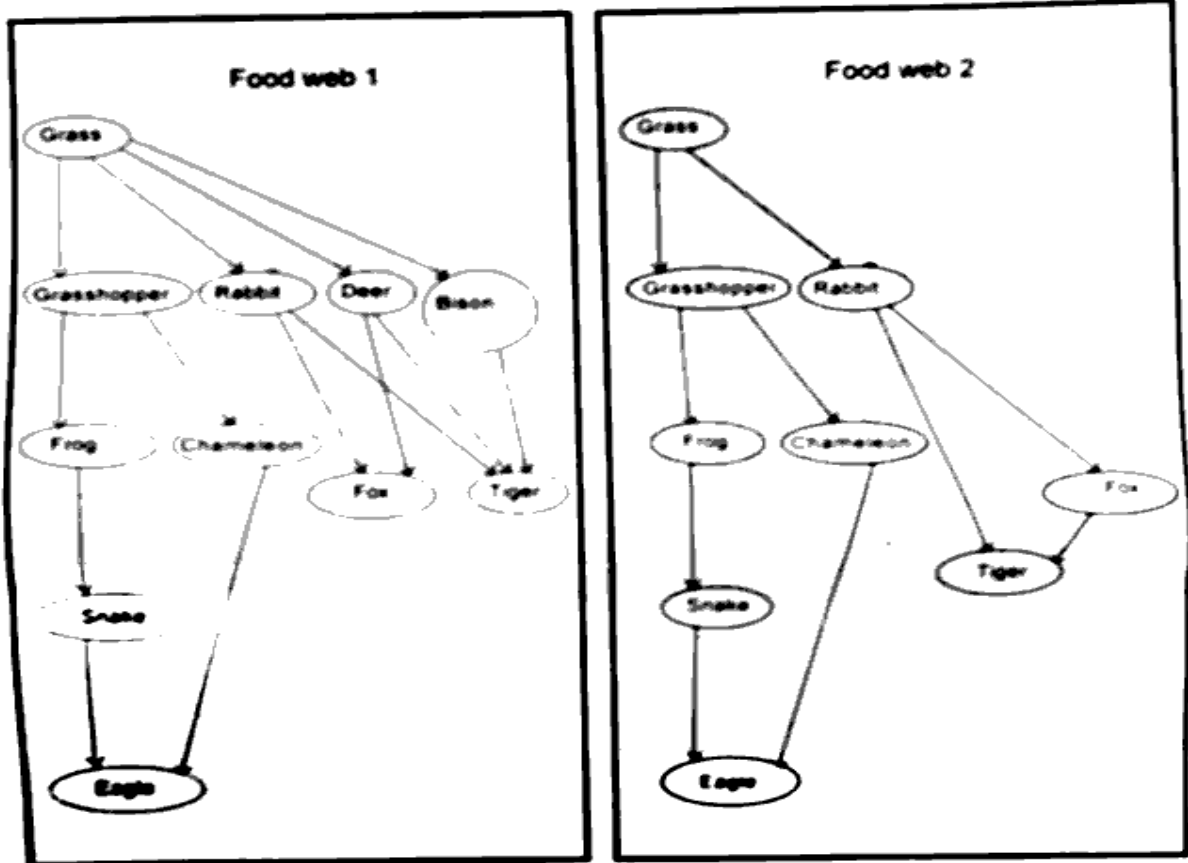
Health problems of two children are given in the table below. Study it.

Child	Symptoms
1	Mouth sores, pus and bleeding of gums
2	Lack of blood, paleness, excessive fatigue

- A) Name the deficiency diseases seen in these children.
- B) Prepare a table of food items and nutrients in them to be included in the diet of these children to cure these diseases.

**Activity 7**

Examine the food webs given below.

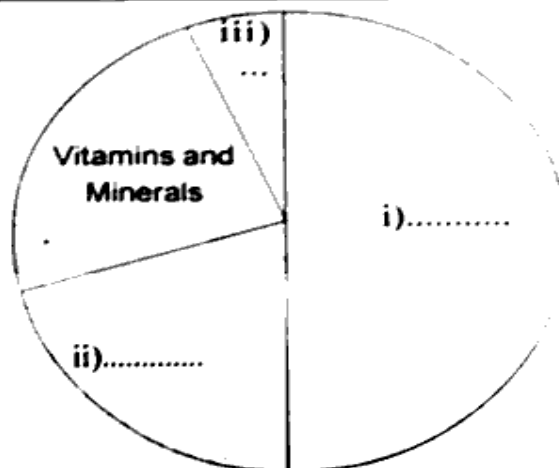


- Which food web will be affected mostly if rabbits become extinct? Why?
- One organism in Food web 1 depends on three various organisms for food. Name the organism. <https://www.keralaboard.com>
- Name the producer in these two food webs.

**Activity 8**

- The nutrients to be included in the food items are given in the box below. Based on the required quantity add them in the diagram appropriately.

a) Fat	b) Carbohydrates
c) Protein	d) Vitamins and Minerals



- B) Name any one food item that contains fibre. Write the importance of including such a food item in our diet.
- C) Find out the diseases caused by mineral deficiency from the given box

Night blindness, Scurvy,  
Anaemia, Goitre, Mouth sores.

#### Activity 9

#### SCHOOL CHILDREN ARE IN ACTION TO SAVE THE POND

The school children are in action against the filling up the pond which is the main water source in the Panchayath. Initially they made arrangements to direct the rain water in the catchment area into the pond. They initiated to take protective measures and conducted awareness programmes in this regard.

- A) Write any three other activities to protect and sustain the pond
- B) Write any two harmful things that happen to the ecosystem while filling up the pond

#### Activity 10

- A) Draw two types of magnets. Write their names
- B) Write any two situations where magnets are used.
- C) Which alloy is used to make magnets?

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