

**Let's pave the way for learning and
Move Forward**

**Standard - 5
Basic Science**



**State Council of Educational Research and Training
(SCERT), Kerala
2022**

Dear students,

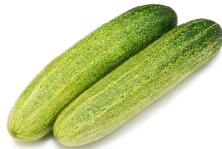
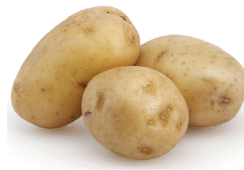
The evaluation of the answer scripts of the First Terminal Examination 2022 and the classroom experiences shared by the teachers concerned, have brought to light the fact that our children have suffered some serious learning gap due to the non-availability of proper learning experiences as a result of the unprecedented situation created by the Covid Pandemic from 2019 to 2022. An activity book has been designed to assist children internalize the concepts which they ought to have mastered in the previous classes and with the intention to facilitate further learning. Necessary explanations and activities are included in the booklet to help children bridge the gap. It is hoped that this package will facilitate the learners for self-study or for studying with the help of their teachers and I wish them success in their endeavors to move forward with confidence.

Director

SCERT

STD - 5 BASIC SCIENCE

WORKSHEET - 1



Observe the picture

1. Does Ginger grow above or below the soil? What about Chilli ?

Put ✓ mark against the correct one

Ginger

Above the soil

Below the soil

Chilli

Above the soil

Below the soil

2. Based on this, classify the above given plants into two categories.

Seen above the soil	Seen below the soil

TUBERS

Plants store food in different parts such as roots, stems and leaves. Tubers are underground plant parts that store food

3. Write more examples for tubers

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4. Observe the tapioca plant. Which parts are mainly exposed ?

Stem

Petiole

Leaf

Observe the taro plant Which parts are mainly exposed?

Stem

Petiole

Leaf

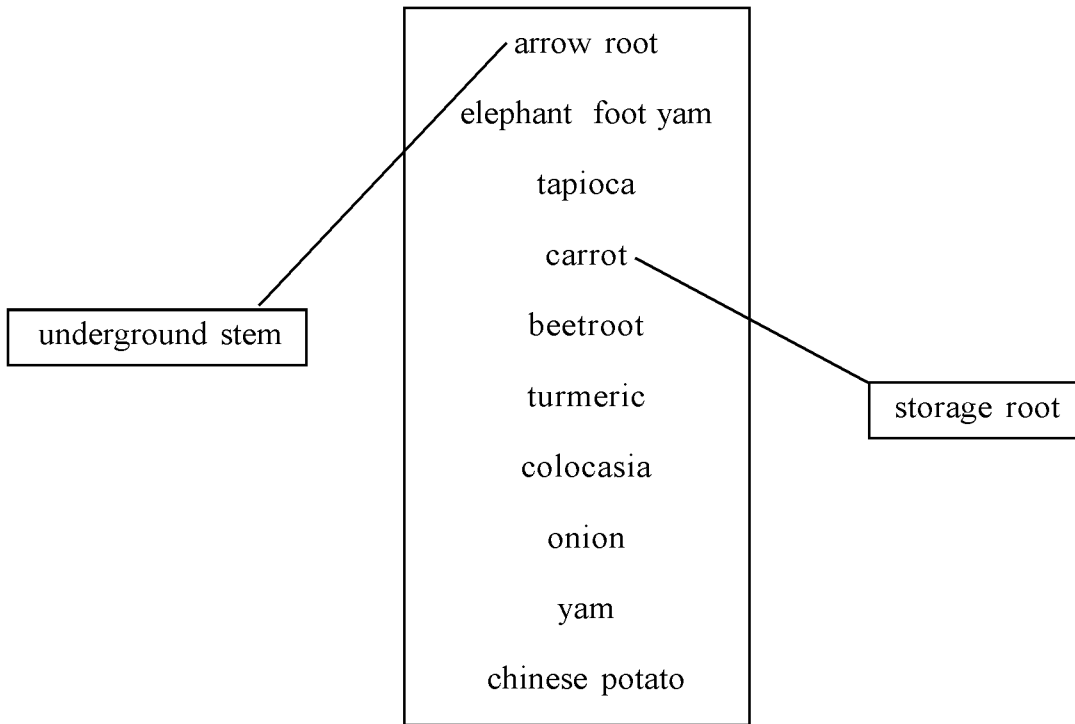
Underground stem

Underground stems are the plants that store food in stems under the soil;
Expect plants like potato, petioles and leaves are seen above the soil.

Storage roots

Storage roots are the ones that store food in the roots. In such plants the stem is seen above the soil.

5. Match the given tubers suitably



6. Are we eating the same plant parts of elephant foot yam and carrot? Explain

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Worksheet - 2

Observe the picture

1. Which gas do organisms take in during respiration?

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2. Which gas do organisms give out?

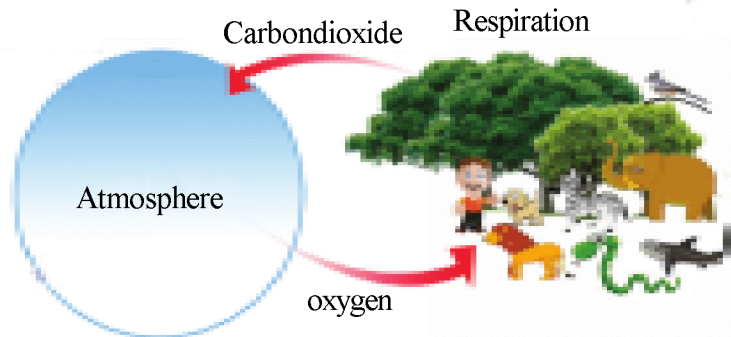
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3. As a result of respiration, what change may occur in the volume of atmospheric carbondioxide and oxygen?

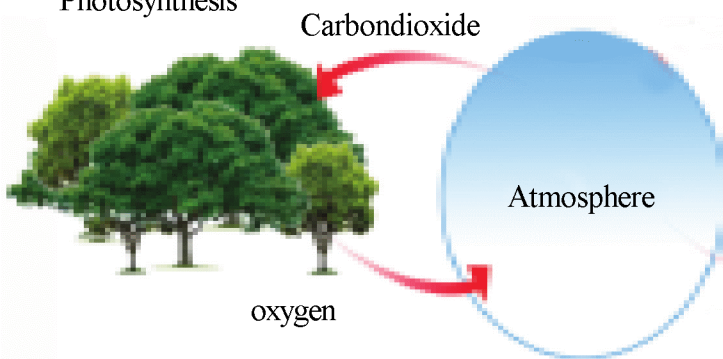
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Photosynthesis



4. Which gas do plants take in during photosynthesis?

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5. Which gas do plants give out?

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4. As a result of photosynthesis, what change may occur in the volume of atmospheric carbondioxide and oxygen?

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7. Observe the pictures. Which creatures are their food?

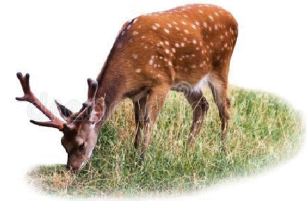
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8. What is the food of those creatures which are eaten by them?

Deer

Rabbit

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9. What will happen to the animals like rabbit, deer etc. if there are no plants on earth?

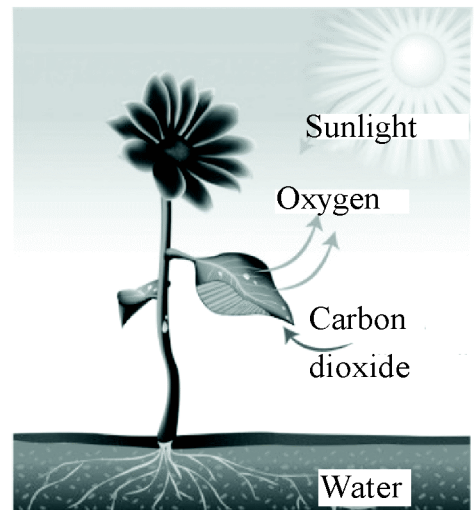
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What will happen to lion, tiger, vulture etc?

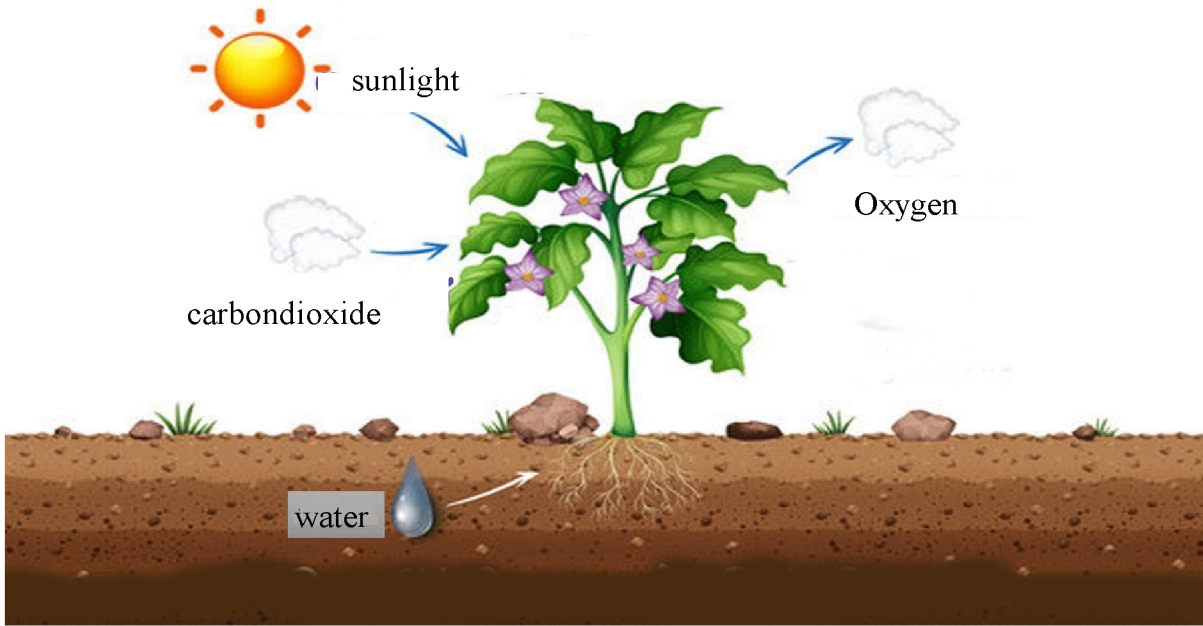
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10. How do plants get food?

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PHOTOSYNTHESIS



Photosynthesis is the process in which green plants prepare their own food using CO_2 and H_2O in the presence of sunlight.

11. Listen to the data given below

The difference in the amount of oxygen and carbondioxide in the atmosphere if photosynthesis does not take place

Availability of food for organisms if photosynthesis does not happen.

Explain the importance of photosynthesis

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Worksheet - 3

1. What have you learned about respiration and photosynthesis? Write using the given clues.

the gas that
takes in

the gas that
gives out

production
of food

food for
other organisms

Increases the amount of carbondioxide
in the atmosphere during respiration

Increases the amount of oxygen in the
atmosphere during photosynthesis

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2. Put ✓ or × against the statements given below.

- Photosynthesis helps to maintain the quantity of oxygen and carbondioxide in the atmosphere
- During respiration organisms take in carbondioxide and give out oxygen
- Plants are useful only to organisms those eat plants.
- The source of food for all organisms is that which plants produce through photosynthesis.

Worksheet - 4

1. Try to pass light rays from a torch through a glass and a steel plate.

Through which does light pass?

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Transparent object

Those objects which allow light to pass through. Glass is a transparent object

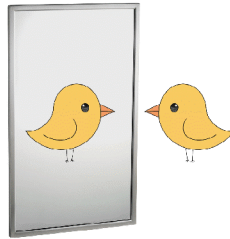
Opaque object

Those objects which do not allow light to pass through. Steel plate is an opaque object

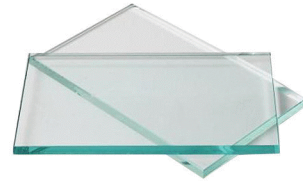
2. Classify the given objects into transparent and opaque



pure water



mirror



glass



wood



polythene cover



steelplate

Transparent objects	Opaque objects

3. Take a small piece of glass . Try to pass light from a torch through it. Does the light pass through? Apply cutex to one side of the glass piece. Try to pass the light again. Does light pass through? Write down your findings.

4. The glass is transparent. What are the other methods to make glass opaque?

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5. Air is transparent. What happens when smoke is mixed with the air?

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6. Pure water is transparent. Suggest different methods to make water opaque?



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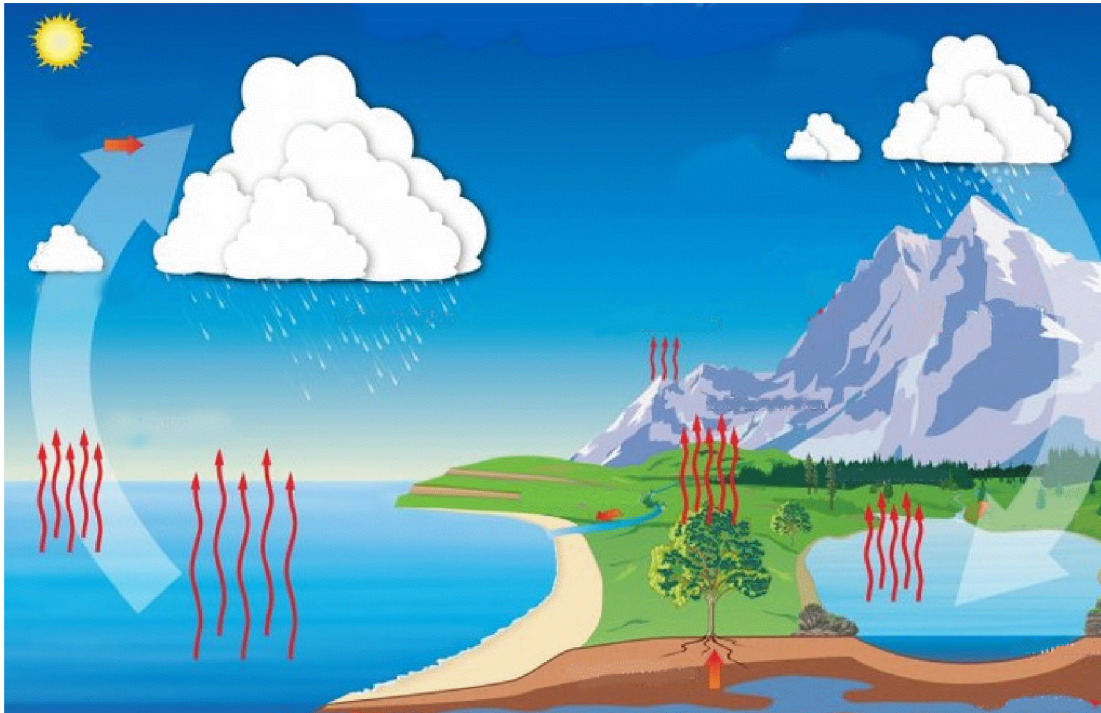
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Worksheet - 5

Observe the picture



Evaporation

Due to the heat of the sun the water in the surface of oceans, other water bodies, soil plants etc. turns into water vapour and rises up.



Condensation

The water, which has turned into water vapour due to the heat of the sun, cools and comes down as rain.

1. What processes must happen for rain to occur?

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Observe the picture

2. How did the water in the vessel become water vapour?

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3. The name this process?

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Observe the picture



4. What can we see in the lid of the vessel?

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5. How did water vapour change to water?

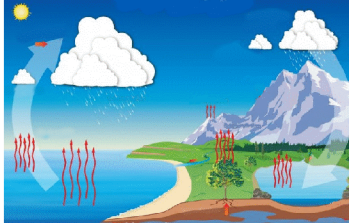
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6. Name this process?

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7. Is there any similarity between this process and occurrence of rain? Explain



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8. Design an experiment that helps to explain how rain is formed.

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Worksheet - 6

Observe the picture



1. If this is earth how do you draw the moon?

In the same size

In larger size

In smaller size

2. How do you draw the sun?

In the same size

In larger size

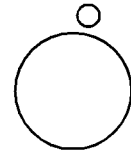
In smaller size

3. Look how the sun, moon and the earth is illustrated. What is special about this illustration?

Sun



Moon



Earth

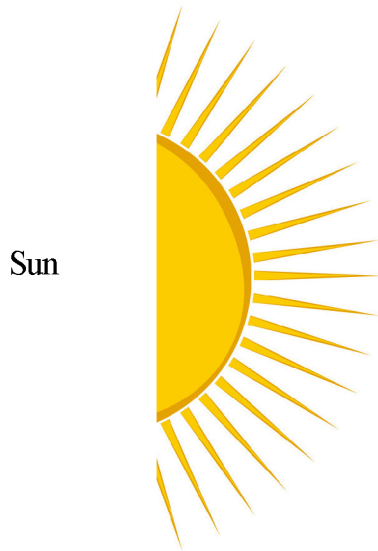
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4. Observe the position of sun, moon and earth in the picture given below. Can anyone standing in any place on earth not be able to see the sun? Explain?



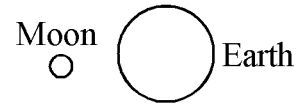
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5. What type of eclipse is happening now?

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6. What will be the position of Sun, Earth and Moon during lunar eclipse? Draw the picture.

