

L-12 Our Life Supports

I. Technical words:

1. Atmosphere:

The blanket of air surrounding the Earth.

2. Humidity:

The amount of water vapour present in the air.

3. Evaporation:

The process of changing of water or any other liquid to vapour by heating.

II Short answer:

1. When a burning candle is covered with a glass, it gets extinguished. Why does this happen? What does this activity show?

Ans 1) A burning candle needs oxygen to burn.

ii) So, if we cover a lit candle with a glass container, the candle will burn only as long as there is oxygen (air) in the container.

iii) This activity shows that oxygen is needed for burning.

2. What is Sedimentation and decantation?

Ans i) Sedimentation is the process of removing insoluble impurities present in water by allowing them to settle down.

ii) Whereas, in decantation, liquid is purified by pouring it into another container without disturbing the sediment.

III Long Answers.

1. Explain filtration with the help of a diagram.

Ans i) The process by which an insoluble impurity is separated from a liquid by passing the mixture through a filter paper is called filtration.

ii) For example, we can separate the mixture of soil from water by using filter paper.

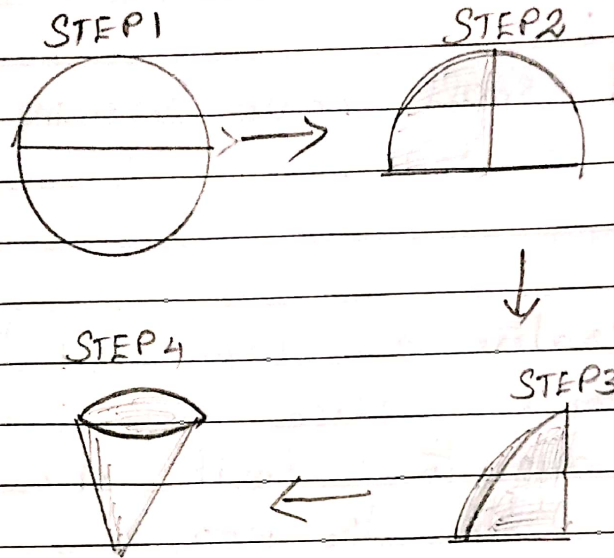
iii) Take a circular filter paper and make a cone.

iv) Place it inside a funnel on the mouth of conical beaker.

v) Pour the mixture of soil and water over the filter paper by using a glass rod.

vi) Drops of clean water will trickle into the beaker and collect as clear filtrate.

vii) Soil particles will be left on the filter paper.



IV HOTS

1. A bottle of Coke or soda should not be left in the freezer for a long time. Why?

Ans A bottle of Coke is designed for a certain volume of liquid. As the water expands inside the container, it strains the bottle and can actually break it if we keep it in the freezer for a long time.

2. On the night of Diwali, sometimes we have difficulty in breathing. Why?

Ans Due to burning of crackers on the night of Diwali, the concentration of carbon dioxide increases. That is why we have difficulty in breathing.

Indumathy
5/1/20

L-13 Our Earth's Natural Satellite

I Technical words:

1. Satellite :
A small body revolving around a planet in space.
2. Tides :
The periodic rising and falling of sea and ocean water.

II Short Answers:

1. What are space telescope called?

Ans i) Hubbles telescope are called space telescopes.
ii) The telescope such as Hubbles telescope which float in space and give a better view and more details about the space are called space telescope.

2. How are tides caused?

Ans i) Tides are caused in the oceans due to the gravitational pull of the moon.

ii) The water of the seas and oceans, on the side of the earth facing the moon is attracted upwards.

iii) This causes high tides, in the areas between two high tides the water form low tides.

Q3. What is a partial lunar eclipse?

Ans When the moon is partly hidden by the dark shadow of the earth, it is a partial lunar eclipse.

III Long Answer.

1. What are artificial satellite? How are these satellites useful to mankind?

Ans Artificial Satellite are man-made objects which revolve around the earth.

These Satellite are useful to mankind in several ways.

i) They help in scientific research and give us valuable information about the atmosphere surrounding the earth.

ii) Communication Satellite are used to send signals of television programmes from one country to another.

iii) Weather satellite give us early warning of dangerous storm or cyclones building over the seas, forest fire, floods or moving glaciers.

iv) Astronomers use satellite to take special measurement of our solar system, stars and galaxies.

IV HOTS

1. We see astronauts floating in space but not on earth. Why?

Ans We see astronauts floating in space because of gravity.

Adarsh
5/1/20