

Chapter- 13

Water and Weather

STUDY NOTES

LET'S LEARN

About water and weather.

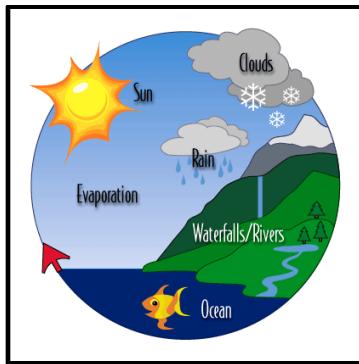
FORMS OF WATER

- The water has three forms.
- They are Ice, water and water vapour.
- When the water is cooled it changes into ice.
- When the water is heated it changes into water vapour.



THE WATER CYCLE

- When the sun shines, water from the rivers, ponds, lakes and oceans heats up and rises in the form of water vapour.
- High up in the sky, this water vapour comes in contact with cold air. It cools down to form tiny drops of water. The tiny drops join together to form clouds.
- On cooling further, these tiny drops become heavy and fall as rain. The rainwater flows back to the rivers, ponds, lakes and ocean.



CHANGING WEATHER

- The sun, the wind, the clouds and the rain decides the weather.
- In India, three main seasons are winter, summer and monsoon. The weather changes from day to day sometimes from hour to hour.

The sun affects the weather

- During mornings and evenings the rays of the sun are slanting. The sun is not so hot during this time.
- At noon the sun is overhead and the rays fall straight. The noon is the hottest part of the day.



The wind affects the weather

- When the wind blows gently, it is called breeze.
- When the wind moves with great speed and there is heavy rain, it is called a storm.
- It causes lot of damage to trees and buildings.



The clouds affect the weather

- On cloudy days, clouds block the sun rays and rays cannot reach us.
- Cloudy nights are warmer because clouds do not allow the heat to escape into the atmosphere. Some clouds bring rain.



The rain affects the weather

- The part of earth on which the rain falls becomes cool.
- Farmers welcome the rain as it is good for the crops.
- Too much of rain causes damage to crops, building and roads and even harm living things.
- The places where there is no rain experience drought. Plants, animals and human beings may die due to lack of food and water.



Weather affects our lives

- What we wear, eat and enjoy depends on the weather.
- Foggy and stormy weather can cause accidents.
- In very cold places with heavy rain or snowfall, people build houses with sloping roofs.
- In places where it rains a lot, people grow and eat rice because a crop of rice needs a lot of water.



MEMORY MAP

WATER AND WEATHER

THE WATER CYCLE

CHANGING WEATHER

THE SUN
AFFECTS THE
WEATHER

THE WIND
AFFECTS THE
WEATHER

THE CLOUD
AFFECTS THE
WEATHER

THE RAIN
AFFECTS THE
WEATHER

WEATHER
AFFECTS
OUR LIVES

Changing your Tomorrow

Teacher's note

Draw an outline of a cloud on chart paper. Cut it out and glue cotton over it. Paste the 'cloud' on blue chart paper. Dip your finger in dark blue paint and press it on the paper to make raindrops under the cloud. Cut out coloured shining paper to make 'lightning' and paste it on the picture.

Improve your G.K.

- 71 percent of the surface of our planet.
- Just 3.5 percent of Earth's water is fresh—that is, with few salts in it.
- In Kerala, India bright red rain has been known to fall.
- Hurricanes are tropical storms that begin life at sea.
- Water regulates the Earth's temperature.
- The sun powers the entire water cycle process on Earth.

Let's know more

I. Write true or false.

- a. Ice, water and water vapour are the three forms of water. []
- b. The weather refers to the sun, the wind, the clouds and the rain. []
- c. On heating tiny drops of water become heavy. []
- d. When wind blows gently, it is called a storm. []
- e. Floods damage crops, buildings and roads. []

Let us answer

A. Tick () the Correct Answer.

B. Which seasons do the objects below remind you of ?

Match them with the seasons.

Objects



Seasons



C. Fill in the blanks.

1. _____ time is the hottest part of the day.
2. In winter, we like the heat of the _____.
3. Too much rain can cause _____.
4. Accidents can occur on _____ days.
5. _____ is experienced due to lack of rain.

D. Answer these questions.

1. Which are the three forms of water?
2. How do foods affect our life?
3. Does weather affect what we eat? Give an example.

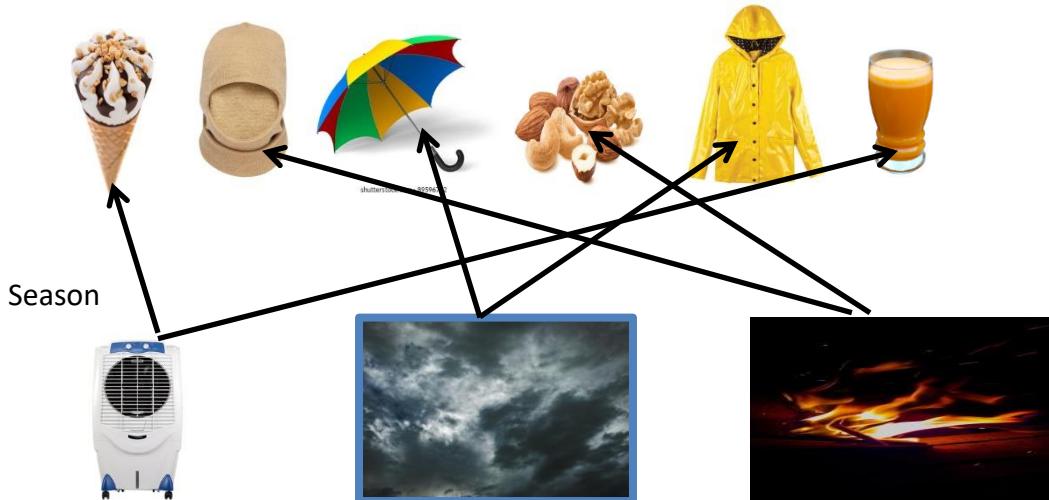
Answer Key:

I. a. True b. True c. False d. False e. True

A. 1-b, 2-b, 3-c, 4-a, 5-c

B. Which seasons do the objects below remind you of?

Match them with the seasons.

Objects

C. 1. Noon 2. sun 3. floods 4. foggy and stormy 5. Drought

D. Answer these questions.

1. Ans: The three forms of water are ice, water and water vapour.
2. Ans: Too much of rain cause floods. Floods causes damage to crops, building and roads. Floods harm living things.
3. Ans: Yes, in places where it rains a lot, people grow and eat rice because a crop of rice needs a lot of water.

