

St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi-110092

Session: 2022-2023 Class: IV Subject: Science

Topic: Air, Water and Weather Lesson No: 12

- **Reading of the chapter**
- **Explanation (will be done in class)**

(Textbook exercise)

Section – A

Worksheet

- **A. MCQs**
 1. **Weather**
 2. **wind**
 3. **daytime**
- **B. Match the following:**
 1. **(b) a strong wind**
 2. **(d) rainwater**
 3. **(a) humidity**
 4. **(c) atmosphere**
- **C. FIB**
 1. **breeze**
 2. **storm**

3. evaporation
 4. Humidity
 5. dew
- **D. Identify the following pictures**
 1. Dew
 2. Hailstones
 3. Snow

Section – B

- **A. MCQ**
 1. faster
 2. chlorine

- **Very short Answer questions**

1. What do you call the tiny ice crystals formed by freezing of due or surface water?

Ans. Frost

2. Name the simplest method to purify water.

Ans. Boiling

(Notebook Work)

- **Key Words**
 1. atmosphere
 2. thunderstorm
 3. humidity
 4. temperature

5. moisture
6. decantation

7. residue

8. chlorination

9. sedimentation

10. impurities

- **Defines**

1. **Weather-** Condition of the atmosphere of a place at a particular time

2. **Humidity-** The amount of water vapour present in the air.

3. **Gale-** A strong wind.

4. **Breeze-** Wind that blows gently and lightly.

5. **Thunderstorm-** Storm occurs with lightning and thunder.

6. **Sedimentation-** Settling down of impurities at the bottom of the container when the water is allowed to stand for few hours.

7. **Decantation-** Pouring out of clear water without disturbing the settled impurities.

8. **Filtration-** Passing water through a filter paper to get a clear liquid.

9. **Chlorination-** Process of adding chlorine in water to kill germs.

- **Short Question/Answers**

1. **How are clouds formed?**

Ans. Clouds are formed when water vapour rises up in the atmosphere and condenses into tiny water drops. Bigger water droplets in clouds fall down as rain.

2. **What is meant by evaporation?**

Ans. The process of change of water into water vapour on heating is called evaporation.

3. **Name two other processes of purifying water.**

Ans. Boiling and chlorination.

- **Long Question/Answers**

1. What is the difference between land breeze and sea breeze?

Ans.

2. How does the sun cause the winds to blow?

Ans. The sun heats the air near the land. The hot air spreads and becomes lighter. Light and hot air rises up. Cooler air flows down to take its place. This moving air is called the wind. So, the sun causes the wind to blow.

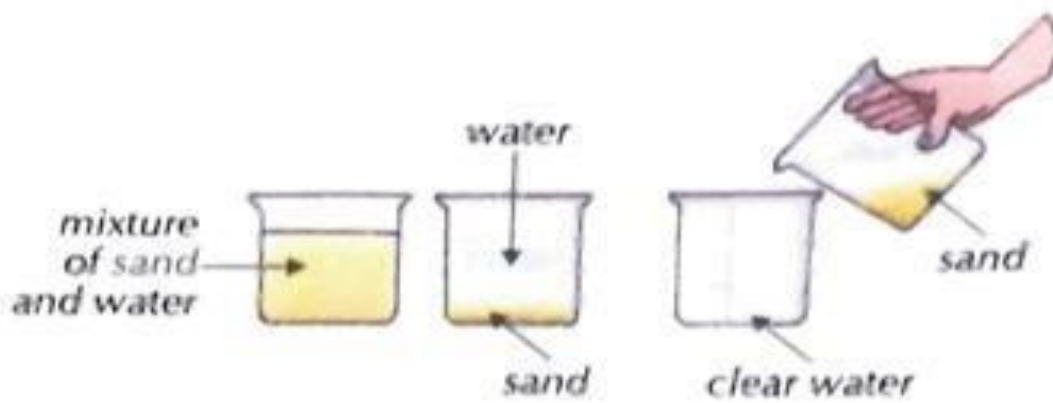
Diagrams

- **Sea breeze**
- **Land breeze**
- **Sedimentation and Decantation**

- Cleaning of water by filtration



Sea breeze



Sedimentation and decantation



Cleaning of water by filtration

Give reasons:

1. Why do snowfall occur mainly on Hill stations and not in plains during winter?

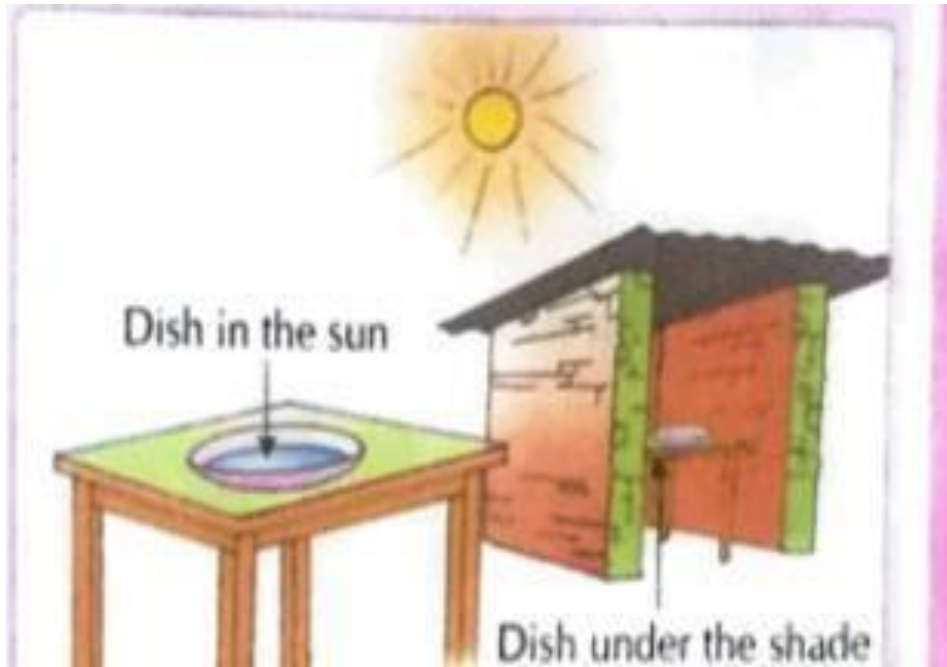
Ans. Air surrounding the mountains is cooler because of the height that results in the cooling of water vapours in the air that fall in the form of snow.

2.The water purifier at your home suddenly stops working. How will you purify the water so that no germs are left in it?

Ans. We will boil water for at least 10 minutes. Germs present in water are killed by boiling.

Activity

- **Aim- To show that water evaporates faster when temperature is high.**
- **Material required- Two dishes and some water.**
- **Procedure- Take two dishes with same quantity of water in them. Keep one in direct sunlight and other in shade. Leave them for 2 hours.**
- **Observation- After 2 hours you will observe that the water level of the dish kept in the sun is lower than the water level in the other dish.**
- **Result- This shows that water evaporates faster when temperature is high.**



- **Dictation**
Any 10 words