

**PARAGON CONVENT SCHOOL**

**SECTOR : 24 B, CHANDIGARH**

**LESSON - 12**

**AIR, WATER AND WEATHER**

**Summary:**

- The sun influences all the factors affecting weather.
- The sun causes wind and humidity.
- Land and water take different amount of time to heat up and cool down, thus, cause sea breeze and land breeze.
- The sun causes the change in the state of water in nature, forming clouds, rain, hail, snow, dew, frost and fog.
- Water can be purified by boiling, sedimentation and decantation, filtration and chlorination.

**Multiple Choice Questions (Page No. 95)**

1. (a)      2. (c)      3. (a)

**Multiple Choice Questions (Page No. 97)**

1. (a)      2. (a)      3. (b)

**EXERCISES**

**Section A**

**Oral Questions**

Q1.- Which type of weather do you like the most?

Ans.- \_\_\_\_\_ ( Write weather of choice)

Q2.- Why do our clothes dry quickly on sunny days?

Ans.- Sunny days are hot and water from the clothes evaporates at a faster rate.

That is why our clothes dry quickly on sunny days.

Q3.- Why do we feel very sticky during rainy season?

Ans.- In rainy season, the air is humid [there is too much moisture already in the air], our sweat does not evaporate easily. Thus, we feel very sticky and uncomfortable.

### **Science Quiz**

Q1.- Name the factors that determine weather.

Ans.- Temperature, wind, air pressure, moisture and clouds

Q2.- Name the coastal breeze blowing from the land towards sea.

Ans.- Land breeze

Q3.- What is the simplest method to purify water?

Ans.- Boiling

### **Multiple Choice Questions**

1. (b)                      2. (c)                      3. (b)

### **Match the following**

1. (b)                      2. (d)                      3. (a)                      4. (c)

### **Fill in the blanks with the help of the given words**

1. breeze    2. storm    3. evaporation    4. Humidity    5. dew

### **Identify the following pictures and write their names in the spaces provided**

1. Dew    2. Hailstones    3. Snow

### **Section B**

### **Multiple Choice Questions**

1. (b)                      2. (a)

**Very short answer questions**

Q1.- What do you call the tiny ice crystals formed by freezing of dew or surface water?

Ans.- Frost

Q2.- Name the simplest method to purify water.

Ans.- Boiling

**Short answer questions**

Q1.- How are clouds formed?

Ans.- Clouds are formed when water vapour rises up in the atmosphere and condenses into tiny water drops.

Q2.- What is meant by evaporation?

Ans.- The change of water into water vapour by heating is called evaporation.

Q3.- ‘The process of purifying water by removing the impurities is called filtration.’

A) Name two other processes of purifying water.

B) Do you think filtering bad influences is important in our lives? Why?

Ans.- (a) Sedimentation / Decantation / Boiling / Chlorination

(b) It is important to filter bad influences in our lives to become a pure, positive and good human being.

**Long answer questions**

Q1.- What is the difference between land breeze and sea breeze.

Ans.-

<u>Land Breeze</u>	<u>Sea Breeze</u>
i) At night, land cools down faster than	i) During the day, the land gets heated

<p>the sea. The hot air above the sea rises up and cool air from the land blows towards sea to take its place. A coastal breeze blowing from the land towards the sea is called land breeze.</p> <p>ii) It occurs at night.</p>	<p>quickly than the sea. Air above the land becomes hot and lighter. It rises up and cool air from the sea rushes to take its place. A coastal breeze blowing from the sea towards the land is called sea breeze.</p> <p>ii) It occurs during the daytime.</p>
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Q2.- How does the sun causes wind to blow?

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