

# St. Andrews Scots Sr. Sec. School

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Session: 2025-26

Class: IV      Subject: Science      Topic: Weather, Water and Air      Lesson No: 11

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

## (Textbook exercise)

- A. Tick (✓) the right answer.
  1. (c) Sun
  2. (a) larger surface
  3. (b) humidity
  4. (c) water vapour
- B. Fill in the blanks.
  1. Freezed
  2. Clouds
  3. Faster, water
  4. Chlorine
- C. Write whether the following statements are (T) for True or (F) for false.
  1. False
  2. True
  3. True

4. False

• **D. Match the following.**

1. - (e)

2. - (c)

3. - (b)

4. - (a)

5. - (d)

**Define (Learn from the pg.96)**

**(Notebook Work)**

• **New Words**

1. Rotation

2. Revolution

3. Evaporation

4. Humidity

5. Condensation

6. Hailstones

7. Sedimentation

8. Decantation

9. Chlorination

10. Atmosphere

• **Short Question Answers**

**Q.1 What is hail?**

**Ans.** Hails are the frozen rain droplets.

**Q.2 Name two main gases present in air.**

**Ans.** Nitrogen and oxygen.

**Q.3 What is the difference between wind and storm?**

**Ans.** Moving air is called wind whereas fast moving air is called storm.

**Q.4 Define atmosphere.**

**Ans.** Blanket of air around us is known as atmosphere.

**Q.5 Why do we add chlorine in water?**

**Ans.** We add chlorine in water to kill the germs present in water.

• **Long Question Answers**

**Q.1 What do you understand by evaporation? Name the factors on which it depends.**

**Ans.** Change of water into water vapour on heating is called evaporation.

It depends on

- i. Wind speed
- ii. Temperature
- iii. Humidity
- iv. Surface area

**Q.2 How are clouds formed ?**

**Ans.** Clouds are formed when water vapour rise up in the atmosphere and condenses into water drops.

**Q.3 Explain the various ways to purify water.**

**Ans.** Water can be purified by:

- i. Sedimentation and Decantation - In this method, water is allowed to stand for sometime, the impurities will settle down and pure water can easily be poured.
- ii. Filtration - In this process, water is passed through filter paper. Impurities get collected on filter paper and pure water is collected in separate vessel.
- iii. Boiling - In this method, water is boiled for 10 minutes to kill the germs.
- iv. Chlorination - In this method, chlorine tablets are added to kill germs present in water.

**Q.4 How are land breeze and sea breeze formed?**

**Ans.** Land heats up and cools down faster than water. Therefore during day time, land gets heated up faster than the sea, so air moves from sea to land during day time, this is called sea breeze.

At night, the land cools faster than the sea, so air moves from land to sea, this is called land breeze.

### **Q.5 How does the sun affect the weather of a place?**

**Ans.** As the earth revolves around the sun, one half of it is close to the sun while other half is away from sun. The part of earth which is close to sun gets more heated so it has warmer and longer days. It is summer in this part. The other part of the earth which is away from the sun has cooler and shorter days. So it is winter in that part.

### **Give Reasons**

#### **Q.1 What would happen if there will be no sun to heat up the earth?**

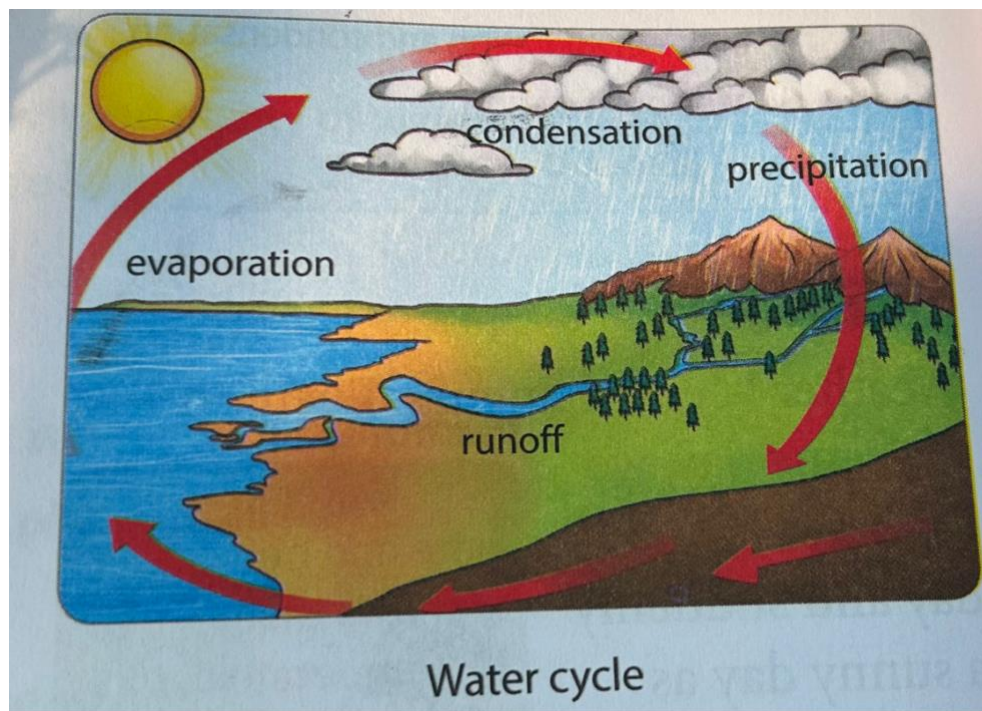
**Ans.** If there will be no sun, life will not exist on earth.

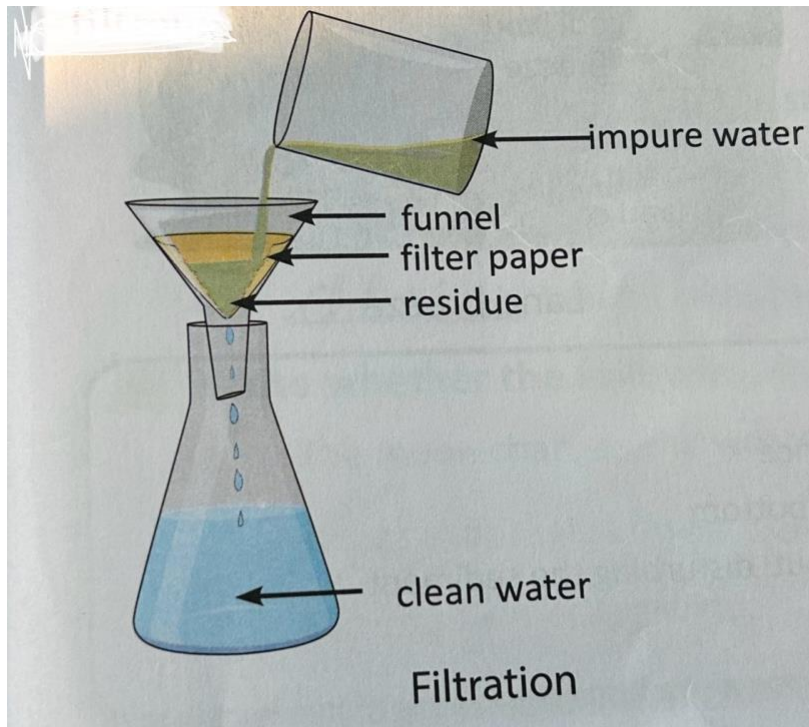
#### **Q.2 How is the sun responsible for blowing of wind?**

**Ans.** Air get heated due to the heat of the sun and uneven heating of air causes wind to blow.

### **Diagrams**

**Draw the following diagrams:**





• **Dictation**

Any 10 words

• **Activity**

Draw or paste the picture of Sea breeze and Land breeze

