

Science**Topic 1**

- Changes of state
- What do we know about Solids, Liquids and gases
- Liquids and Solids
- Solid, Liquid and gas
- Investigating Evaporation
- Water cycle

PowerPoint Presentation and worksheets saved in **General-Files-Assessments Topics-Science**-with the given folder name-**Changes of state-1**

Textbook Reference:

Textbook pages 1, 2, 3, 4, 5, 6, 7, 12, 14, 15 & 16.

Workbook pages 1, 2, 3, 4, 5, 6, 12, 13 & Worksheets.

Name:	Term: 2 - Year 4	
Subject: Science	Date:	Practice sheets
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Science practice sheets

Year 4

2025 - 2026

Term 2

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Section A: Scientific Vocabulary & Understanding**Q1. True or False****Write True or False.**

1. Solids have a fixed shape.

2. You can pour some solids.

3. Gases have a fixed shape.

4. If you pour a liquid, it will have a flat top.

5. Air is all around us.

6. Liquids have a fixed shape.

7. All solids have the same properties.

8. There are different types of liquids.

9. Evaporation is caused by heat.

10. Precipitation is only rain.

11. Condensation forms clouds.

12. The water cycle repeats.

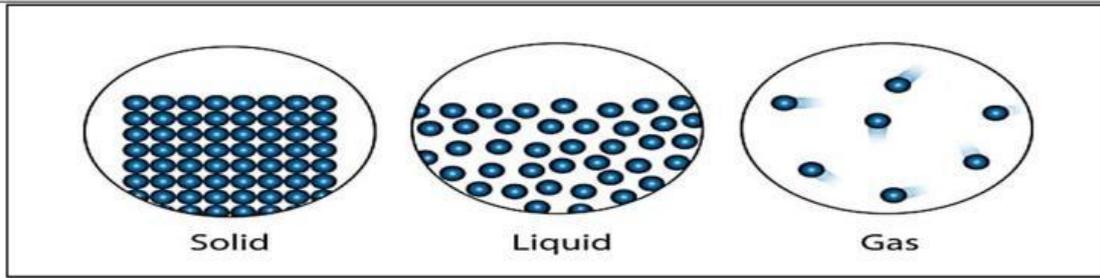
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Q2. Use the words from the Word Bank to fill in the blanks

Gas	shape	far	moves	volume	closely
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- Air is a _____.
- A solid keeps its _____.
- Liquid particles can _____.
- Solid particles are packed very _____.
- Gas particles are _____ apart.
- Liquids have a fixed _____.

Section B: Sorting

Q3. Sorting Matter

- Milk, Air, Dates
- Solid _____ Liquid _____ Gas _____
- Juice, Stone, Air
Solid _____ Liquid _____ Gas _____
- Bread, Steam, Karak tea
Solid _____ Liquid _____ Gas _____
- Sound, Air, Light, Book
Matter _____ Not matter _____

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Q4. Sort the items into solid, liquid, or gas by drawing lines to the correct state of matter:

A wooden chair	•	•	Solid
The bubbles in my lemonade	•		
Orange juice	•	•	Liquid
Tomato ketchup	•		
A piece of chocolate	•	•	Gas
The helium inside my balloon	•		

Q5. Tell whether each is a solid, liquid, or gas.

- Milk - _____
- Cookie - _____
- Oxygen - _____
- Fish - _____
- Pencil - _____
- Maple syrup - _____
- Shampoo - _____
- Carbon dioxide - _____
- Ice cube - _____
- Paint - _____

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Q6. Complete each sentence with the word solid, liquid, or gas.

1. A _____ has a definite shape. It does not take the shape of its container. It also has a definite volume because it can be measured.
2. A _____ does not have a definite shape. It takes the shape of its container. It does have a definite volume because it can be measured.
3. A _____ does not have a definite shape. It sometimes takes the shape of its container and sometimes flies freely around you. These particles are not connected to each other and takes up whatever space is available.

Section C: Changes in Matter**Q7. Heat or Cool**

1. Melting → _____
2. Freezing → _____
3. Evaporation → _____
4. Condensation → _____

Q8. Multiple Choice**Circle the correct answer.**

1. A book is a:
A. Liquid B. Gas C. Solid
2. Which is a liquid?
A. Ice B. Juice C. Chair
3. Which is a gas?
A. Rice B. Karak tea C. Oxygen

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4. A liquid:
- A. Has fixed shape
 - B. Can flow and be poured
 - C. Cannot be seen
 - D. Is always hard
5. Which can be poured?
- A. Table B. Stone C. Water D. Plate
6. Steam is a:
- A. Solid B. Liquid C. Gas

Q9. Investigating Evaporation.



Q1. Describe how the first picture is a model of a liquid.

Q2. How does the other picture show water as a gas?

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Q3. Explain evaporation. You can use a diagram to help.

Q10. Complete the worksheet by reading the instruction below.

Changing State

below 100°C	evaporates	condenses	freezes
heat	melts	0°C	100°C
cool	cool	heat	
	0°C		

Using the words above complete the sentences below.

If you _____ water to a temperature of _____, it _____ to form water vapour.

➔

If you _____ water vapour to a temperature of _____, it _____ to form water.

⬇

If you _____ water to a temperature of _____, it _____ to form ice.

➔

If you _____ ice to a temperature of _____, it _____ to form water.

⬆

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Q11. Answer the following questions.

1. What is melting?

2. What is freezing.

3. What happens to water when you put it in the freezer?

4. What happens to chocolate when you leave it in the sun?

5. Why does a puddle disappear on a sunny day?

6. How do clothes dry faster on a hot, windy day?

7. Where does melted ice go after some time?

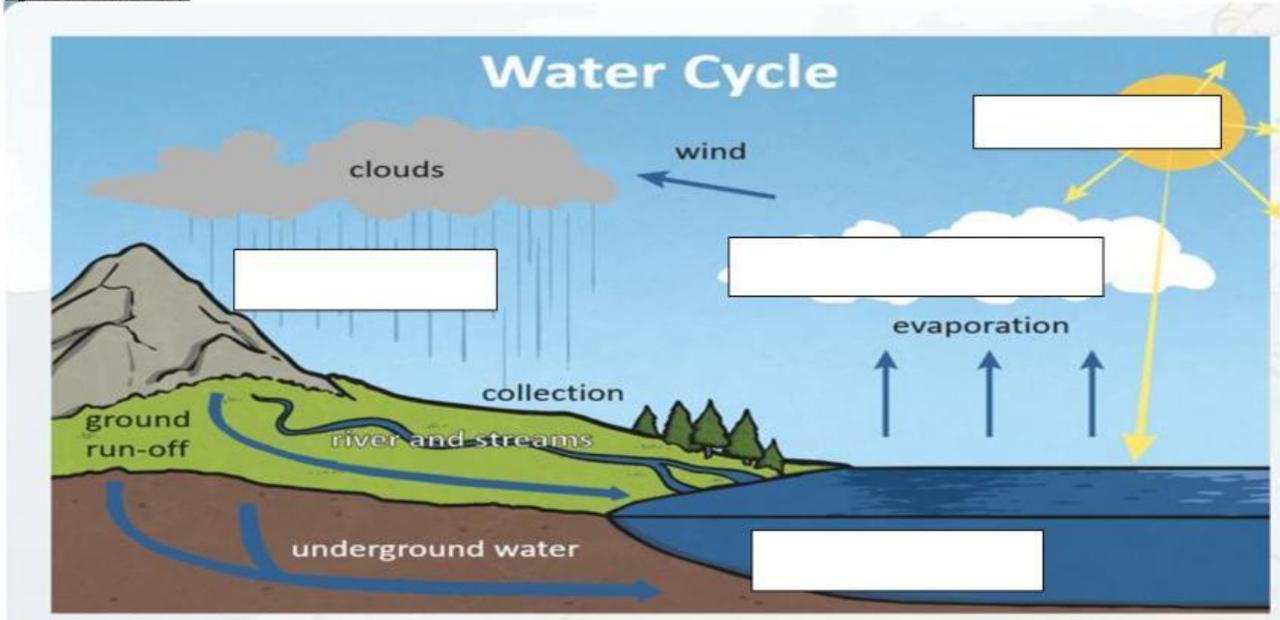
8. Why does steam form when water boils?

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Q12. Label the following water cycle diagram and answer the questions.



Questions:

1. What is condensation?

2. How are clouds formed?

3. Why does precipitation happen?

4. Where does rainwater go after it falls?

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Q13. Draw the arrangement of particles in the three states of matter and answer the questions.

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Questions

1. What is different about the particle arrangement in solids and liquids?

2. How are gas particles different from solid particles?

3. Why can liquids flow but solids cannot?

4. Why can gases spread in all directions?

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Q14. Experiment – Evaporation- Which water disappears faster?

You need:

- 2 small plates
- Water
- Sunny place
- Shady place

Steps:

1. Pour equal water in both plates.
2. Keep one plate in the sun.
3. Keep one plate in the shade.
4. Check after 2–3 hours

Which Water Disappears Faster?
Experiment: Sunny vs. Shady!

1. Pour equal water in both plates.
2. Keep one plate in the **sun**.
3. Keep one plate in the **shade**.
4. Check after 2–3 hours.

Plate A: In the Sun **Plate B: In the Shade**

Which plate will dry faster? **Let's find out!**

Questions:

1. Which plate dried faster?

2. Why did it dry faster?

3. What caused the water to disappear?

4. How can you prove evaporation happened?

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Think out of the box!

"Imagine a magical world where matter can change states in an instant. What if you could make ice cream without a freezer or melt metal with a touch? How would your life be different if you could change the state of matter around you just by wishing it? What new inventions or adventures would you create with this power?"
What do you think? Ready to spark some creative thinking?

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