

## Year 5 – Assessment Study Guide

### Term 2 - 2025-2026

<u>Subject</u>	<u>Topics included</u>	<u>Refer to</u>
PowerPoint presentations are saved in <b>-Assessments Topics – Term 2 - Science -</b> with the following folder name		
<b>SCIENCE</b>	<p><b><u>Materials</u></b></p> <ul style="list-style-type: none"> <li>➤ Properties of materials</li> <li>➤ Electrical conductors and insulators</li> <li>➤ Thermal conductors and insulators</li> </ul> <p><b><u>Types of changes</u></b></p> <ul style="list-style-type: none"> <li>➤ Reversible changes</li> <li>➤ Separating Mixtures</li> <li>➤ Melting</li> <li>➤ Physical change</li> </ul>	<p>PowerPoint Presentation saved in <b>General-Files- Assessments Topics Term 2 -Science,</b> with the given folder name- <b>Materials</b></p> <p><b>Topic Book pages: 1,2,3,5,6,7,8, 10, 11, 12</b>  <b>Workbook pages: 1,2,5,6,7, 9, 10, 12</b>  <b>Worksheets</b></p> <p>PowerPoint Presentation and worksheets saved in <b>General-Files-Assessments Topics-Science,</b> with the given folder name- <b>Types of changes</b></p> <p><b><u>Textbook Reference:</u></b>  <b>Topic book Pages: 1,3, 6, 7, 9, 10</b>  <b>Workbook pages: 1, 7, 9</b>  <b>Worksheets</b></p> <p><b>SAMPLE PRACTICE WORKSHEETS UPLOADED AS  - SCIENCE PRACTICE SHEETS</b></p>

2025-2026

<b>Name:</b>		<b>Term 2 – Year 5</b>
<b>Subject: Science Practice Sheets</b>	<b>Date:</b>	<b>Objective: I can apply knowledge and answer the questions</b>

**Section A: Scientific Vocabulary (Knowledge & Understanding)**

Question 1.a) Define the term electrical conductor.

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b) Identify two examples of electrical conductors.

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c) Define the term electrical insulator.

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d) Identify two examples of electrical insulators.

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e) Electrical wires are covered with plastic. Explain why plastic is used.

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Question 2. a) Heat travels from a warmer place to a \_\_\_\_\_ place.  
(State the missing word.)

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b) Define:

- Thermal conductor

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- Thermal insulator

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c) Name two thermal conductors and two thermal insulators.

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### Question 3 – Changes of State

a) Identify the process for each change:

Solid → Liquid \_\_\_\_\_

Liquid → Gas \_\_\_\_\_

Liquid → Solid \_\_\_\_\_

b) Define reversible change.

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c) Define irreversible change.

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**Section B: Properties of Materials**Question 4. State the correct term.

- a) The substances objects are made from are called \_\_\_\_\_.
- b) The temperature at which a liquid changes into a gas is called the \_\_\_\_\_.
- c) The temperature at which a solid changes into a liquid is called the \_\_\_\_\_.
- d) The boiling point of the liquid is \_\_\_\_\_.
- e) The melting and freezing points of water are \_\_\_\_\_.

Question 5 – Properties

a) Identify the property that means:

- Cannot see through = \_\_\_\_\_
- Able to soak up water = \_\_\_\_\_
- Able to protect from water = \_\_\_\_\_

b) Compare transparent and translucent materials.

**(Write one similarity or difference.)****Transparent:****Translucent:****Section C: Applying Scientific Knowledge**Question 6 – Separating Mixtures

a) List three ways of separating mixtures.

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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b) Sand and iron filings are mixed together.

i) Suggest a suitable method to separate them. \_\_\_\_\_

ii) Explain why your method works. \_\_\_\_\_

c) Salt is mixed with water.

i) Outline how you would separate the salt from water. \_\_\_\_\_

ii) Predict what would happen if you left the salt water in the sun for several days.

Question 7 – Physical Changes

a) Define a physical change.

b) Ice melting and paper burning are both changes.

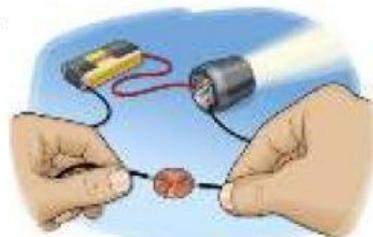
i) Compare these two changes.

Ice melting: \_\_\_\_\_ Paper burning: \_\_\_\_\_

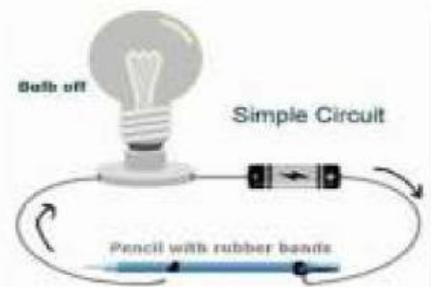
ii) Justify which one is irreversible. \_\_\_\_\_

**Section D: Experiment-Based Questions**Question 8 – Electrical Investigation

A student builds a simple circuit to test various materials (a coin, a rubber, a plastic spoon, and a nail).



COIN

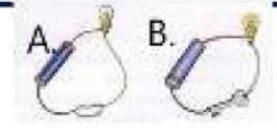


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a) Describe how the student can test if a material is a conductor.

b) The bulb lights up when the nail is tested.

Interpret this result. \_\_\_\_\_

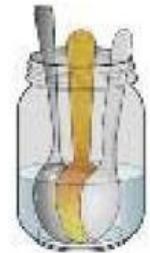
c) The rubber does not allow the bulb to light. Explain why.

### Question 9 – Thermal Conductivity Experiment

A student places a metal spoon and a wooden spoon in hot water.

a) Predict which spoon will become hot faster. \_\_\_\_\_

b) Explain your answer using scientific vocabulary.



c) Evaluate why saucepan handles are often made of plastic instead of metal.

### Question 10 – Absorbency Investigation

A student tests three materials: **cotton**, **plastic** and **paper towel** to see which absorbs the most water.



a) Predict which material will absorb the most water. \_\_\_\_\_

b) After the test, the student observes:

- Cotton absorbed a lot of water.
- The paper towel absorbed some water.
- Plastic did not absorb water.

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Explain why plastic did not absorb water.

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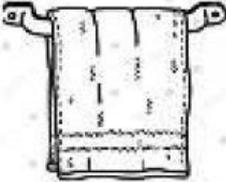
d) Suggest one everyday object that needs to be absorbent. Explain why.

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### Section E: Materials & Their Properties

#### Question 11

For each object below, **identify** two important properties and **justify** your choice.

Object	Property 1	Property 2	Justification
Fridge magnet 			
Bath towel 			
Steel keys 			
Plastic umbrella 			

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Question 12 – Everyday Materials

Some objects are made from more than one material.

**Choose any four objects from the list** (Chair, Pencil, Glasses, Saucepan, Coat, Shoes).

a) Identify the materials used.

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b) Explain why each material is suitable.

Material	Explanation

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**Section F: Thinking Scientifically**

Question 13 – Reversible & Irreversible Changes



a) Analyse how reversible and irreversible changes are different.

b) Bread baking is an irreversible change. Explain why it cannot be reversed.

c) List a few examples of reversible and irreversible changes.

<u>Reversible changes</u>	<u>Irreversible changes</u>

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Question 14

**Challenge Question**

**Real-Life Scientific Design Challenge**

A company wants to design a lunch box that:

- Keeps food warm
- Is lightweight
- Does not break easily

a) Analyse what properties the material should have.

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b) The company is choosing between metal, plastic and glass.

i) State one advantage of each material.

- Metal: \_\_\_\_\_
- Plastic: \_\_\_\_\_
- Glass: \_\_\_\_\_

ii) Identify which material you think is the best choice. \_\_\_\_\_

iii) Explain why you chose that material using words such as:

insulator, strong, lightweight or durable.

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c) Suggest one improvement to make the lunch box better at keeping food warm.

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