MeerkatSkool

PRACTICE TEST

Practice test · Term 2
Version 1.6 · 21 October 2026

Natural Sciences and Technology · Grade 5

Matter and Materials

Term 2 | 7 questions | CAPS-aligned

TOTAL 54 MARKS

NAME AND SURNAME _____ CLASS _____ DATE _____

Instructions

1. This question paper consists of SEVEN questions. Answer all the questions.
2. Answer all the questions on the question paper itself, in the spaces provided.
3. Read each question carefully before you begin writing.
4. Write neatly and legibly. Work that cannot be read cannot be marked.
5. You may use a pencil and a ruler for drawings and diagrams.

Question	Content of the question	Marks	Obtained
1	Multiple choice	4	
2	Matching	4	
3	Matter and materials	9	
4	Metals and non-metals	10	
5	Technology: structures and materials	7	
6	Technology: the design process	9	
7	Processing materials	11	
	Total	54	
	Percentage		%

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1 Multiple choice

4 marks

Choose the correct answer and circle its letter.

PRACTICE EXAMPLE · DO THIS ONE TOGETHER FIRST

Which one is a LIQUID?

a Ice b Milk c Steam

Milk flows and takes the shape of its container, so the answer is b. Circle the b.

This example does not count for marks. It only shows you how to answer.

1.1 Which one of these objects is attracted by a magnet? **(1)**

(a) An iron nail (b) A copper wire (c) A plastic spoon

1.2 Where do we get metals from? **(1)**

(a) They are mined from the Earth (b) They grow on plants (c) They are made from sand

1.3 Which one of the following is a NON-METAL? **(1)**

(a) Aluminium (b) Steel (c) Glass

1.4 Which one of these objects is made of METAL? **(1)**

(a) A tin can (b) A cotton shirt (c) A clay pot

2 Matching

4 marks

Match the description in COLUMN A with the correct word in COLUMN B. Write only the LETTER. One word is left over.

2.1 **(4)**

COLUMN A	COLUMN B	Answer
1. A material that we get straight from nature without changing it, e.g. clay or wool	A. Rust	1 = _____
2. A material that heat moves through easily	B. Raw material	2 = _____
3. A material that people make by changing raw materials, e.g. plastic or glass	C. Mixture	3 = _____
4. What forms on iron when it is wet and in the air	D. Conductor	4 = _____
	E. Processed material	

3 Matter and materials

9 marks

3.1 Write next to each object which PROPERTY the material must have. **(3)**

Object	Property
A raincoat	
A window pane	
A bridge cable	

3.2 Name TWO properties to consider when choosing a material for a school chair. **(2)**

3.3 For hundreds of years people in Africa have processed plant materials such as grass and reeds. Name TWO things that people make from grass or reeds. **(2)**

3.4 A farmer wants to make a gate that will stand outside in the rain. Which material would you recommend, and why? **(2)**

4 Metals and non-metals

10 marks

4.1 Write next to each material whether it is a METAL or a NON-METAL. **(4)**

Material	Metal / Non-metal
Iron	
Plastic	
Copper	
Wood	

4.2 Name THREE properties of metals. **(3)**

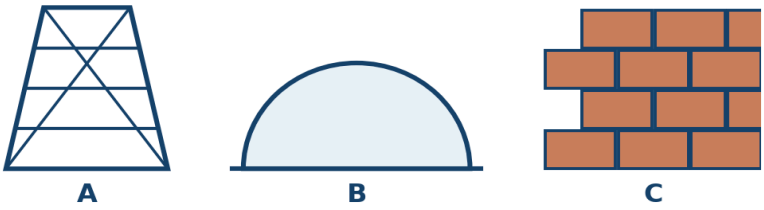
4.3 A saucepan is made of metal, but its handle is made of plastic or wood. Explain why. **(2)**

4.4 Name ONE way to stop iron from rusting. **(1)**

5 Technology: structures and materials

7 marks

5.1 Study the structures below and write next to each letter what kind of structure it is. **(3)**



A: _____ B: _____ C: _____

5.2 Explain why an egg shell is so strong even though it is very thin. **(2)**

5.3 A group of learners builds a bridge out of paper that must carry a book. Name TWO things they can do to the paper to make it stronger. **(2)**

6 Technology: the design process

9 marks

THE DESIGN BRIEF

The tap on the school's rainwater tank is too high for the Grade 1 learners to reach. Design a way for them to get water themselves without climbing.

6.1 Write the PROBLEM in ONE sentence. **(2)**

6.2 Name THREE specifications your design must meet. **(3)**

6.3 Draw a labelled sketch. Label at least THREE parts. **(3)**

6.4 How will you TEST whether it works? **(1)**

7 Processing materials

11 marks

7.1 Give an example of a product made with each processing method. **(4)**

Processing method	Product
Mixing and setting	
Mixing and cooking	
Mixing and cooling	
Mixing, drying and/or firing	

7.2 Which building material is made by mixing cement, sand, stones and water? What is it used for? **(2)**

7.3 Name THREE uses of metals, and say which property makes each possible. **(3)**

7.4 Why is it important to choose the RIGHT material for a job? Give an example. **(2)**

Total **54 marks**



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