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PRACTICE TEST

Practice test · Term 2
Version 1.6 · 21 October 2026

Natural Sciences · Grade 7

Matter and Materials

Term 2 | 7 questions | CAPS-aligned

TOTAL 38 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	3	
2	Matching	4	
3	Terminology	3	
4	Diagrams	10	
5	Longer questions	4	
6	Acids, bases and the periodic table	10	
7	Heating and boiling point	4	
	Total	**38**	
	Percentage		%

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1 Multiple choice

3 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 method is used to get PURE WATER back from sea water? **(1)**

(a) evaporation (b) distillation (c) sieving

1.2 A substance with a pH of 7 is: **(1)**

(a) neutral (b) an acid (c) a base

1.3 Which method separates sand from water? **(1)**

(a) evaporation (b) filtration (c) chromatography

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 pure substance that cannot be broken down into simpler substances	A. Tissue	1 = _____
2. A type of element found on the left-hand side of the Periodic Table	B. Mixture	2 = _____
3. Two or more substances with different physical properties that are mixed together	C. Acid	3 = _____
4. A substance with a pH below 7	D. Metal	4 = _____
	E. Element	

3 Terminology

3 marks

3.1 Write the correct term next to each description. **(3)**

Description	Term
A substance with a pH above 7	
Using waste materials such as glass, metal and plastic again to make new products	
A mixture that looks the same throughout	

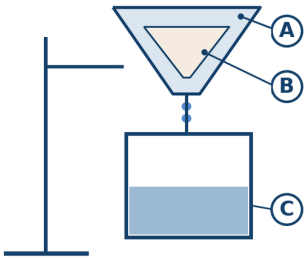
4 Diagrams

10 marks

4.1 Write next to each element whether it is a METAL, a SEMI-METAL or a NON-METAL. **(3)**

Element	Metal, semi-metal or non-metal
Magnesium (Mg)	
Boron (B)	
Chlorine (Cl)	

4.2 Study the apparatus below and write at each letter what it is. **(3)**



A: _____ B: _____ C: _____

4.3 Write the separation method next to each mixture. **(4)**

Mixture	Separation method
Gravel and sand	
Salt and water	
Iron and sulphur	
The dyes in ink	

5 Longer questions

4 marks

5.1 Copper is used for electrical wires and for the bottoms of cooking pots, but pot handles are made of plastic or wood. Explain why, using the properties of these materials. **(4)**

6 Acids, bases and the periodic table

10 marks

6.1 Write next to each substance whether it is an ACID, a BASE or NEUTRAL. **(4)**

Substance	Acid / Base / Neutral
Lemon juice	
Soapy water	
Pure water	
Vinegar	

6.2 What is an INDICATOR? Name ONE example. **(2)**

6.3 Write the name of the element next to each symbol from the periodic table. **(4)**

Symbol	Element
H	
O	
Fe	
Na	

7 Heating and boiling point

4 marks

7.1 Water is heated and the temperature is measured every two minutes. **(4)**

Time (min)	0	2	4	6	8	10
Temperature (°C)	20	45	70	95	100	100

a. What is the water's boiling point according to the table? _____

b. When does it start to boil? _____

c. Why does the temperature not rise after 8 minutes? _____

d. Which substance escapes when the water boils? _____

Total **38 marks**



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