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PRACTICE TEST

Practice test · Term 2
Version 1.6 · 21 October 2026

Natural Sciences and Technology · Grade 6

Matter and Materials

Term 2 | 7 questions | CAPS-aligned

TOTAL 46 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	Short questions	3	
4	Matter, mixtures and separation	10	
5	Solutions and dissolving	9	
6	The water cycle	10	
7	Separating with a magnet and other methods	7	
	Total	46	
	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 When salt dissolves in water, we call the mixture a: **(1)**

(a) Suspension (b) Solution (c) Pure substance

1.2 Which method would you use to remove sand from water? **(1)**

(a) Evaporation (b) Magnetic separation (c) Filtration

1.3 Which one of the following does NOT dissolve in water? **(1)**

(a) Sand (b) Sugar (c) Salt

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 substance that dissolves in a liquid	A. Solvent	1 = _____
2. The liquid in which something dissolves	B. Filter	2 = _____
3. A mixture where one substance dissolves completely in another	C. Solute	3 = _____
4. To sieve a solid out of a liquid	D. Evaporation	4 = _____
	E. Solution	

3 Short questions

3 marks

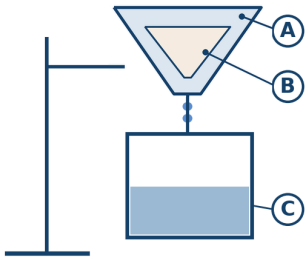
3.1 Match the separation method in Column A with the mixture in Column B. **(3)**

Column A	Column B	Answer
1. Sieving	A. Red beads mixed with blue beads	1 = _____
2. Magnet	B. Small stones from sand	2 = _____
3. Hand sorting	C. Steel pins from sawdust	3 = _____

4 Matter, mixtures and separation

10 marks

4.1 Study the apparatus below and write next to each letter what it is. **(3)**



A: _____ B: _____ C: _____

4.2 What do we call the solid that stays behind on the filter paper? Answer in a full sentence. **(2)**

_____

_____

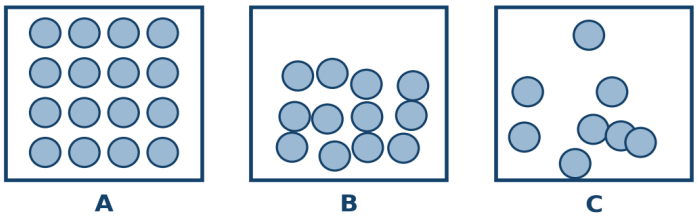
4.3 Explain why filtration CANNOT remove salt from salt water. **(2)**

_____

_____

_____

4.4 Write the state of matter shown by each particle diagram. **(3)**



A: _____ B: _____ C: _____

5 Solutions and dissolving

9 marks

5.1 Salt dissolves in water. What is the SOLUTE and what is the SOLVENT? **(2)**

_____

_____

5.2 Name TWO ways to make sugar dissolve FASTER. **(2)**

_____

_____

5.3 Karabo puts a teaspoon of sugar in a glass of warm water and a teaspoon in a glass of cold water, and measures how long it takes to dissolve. **(3)**

a. Which factor does she CHANGE? _____

b. Name ONE factor she keeps the SAME. _____

c. What does she measure? _____

5.4 How can you get the salt back out of the salt water? **(2)**

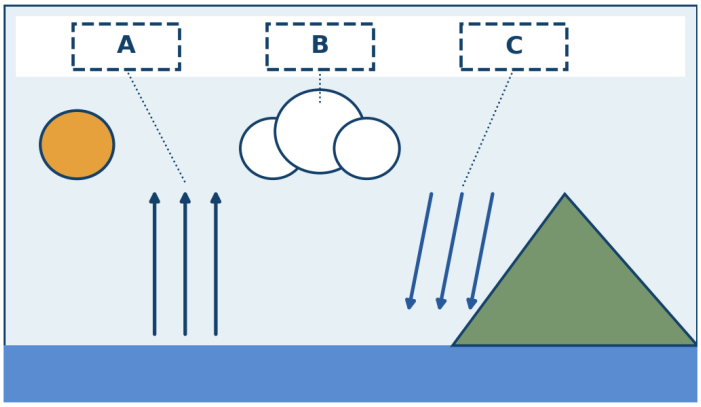
_____

_____

6 The water cycle

10 marks

6.1 Study the diagram and name the processes at A, B and C. **(3)**



A: _____ B: _____ C: _____

6.2 Explain what happens to the water's PARTICLES during evaporation. **(3)**

_____

_____

_____

6.3 Why is the rain that falls cleaner than the water in a dirty river? **(2)**

_____

_____

_____

6.4 Name TWO ways people pollute the water in the water cycle. **(2)**

_____

_____

_____

7 Separating with a magnet and other methods

7 marks

7.1 Write the best method next to each mixture. **(3)**

Mixture	Method
Dried beans and flour	
Steel paper clips and rice	
Tea leaves and tea	

7.2 Why does a magnet work for some metals but not for all metals? **(2)**

7.3 A child mixes sugar into hot tea. Where does the sugar go? **(2)**

Total **46 marks**



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