MeerkatSkool

TEST 1 OF 2

Practice test · Term 1–2
Version 1.6 · 21 October 2026

Natural Sciences · Grade 7

Life and Living, Matter and Materials

Term 1–2 | 6 questions | CAPS-aligned

TOTAL 63 MARKS

NAME AND SURNAME _____ CLASS _____ DATE _____

Instructions

1. This question paper consists of TWO sections. 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.
6. This test covers Term 1 and Term 2 work (the June exam). Test 2 of 2 covers the Term 3 and Term 4 work of the November exam.

Question	Content of the question	Marks	Obtained
1	Multiple choice	6	
2	Column A and B	5	
3	Terminology	7	
4	Case study	18	
5	Diagrams and apparatus	14	
6	Longer questions	13	
	Total	63	
	Percentage		%

Free sample · feel free to print and share

This test is a free sample from MeerkatSkool. Print it for your child and feel free to share it with other parents and teachers. Ask us about the full booklet with all the tests and memos: meerkatskool.co.za or WhatsApp 066 462 7629. This sample may not be sold.

Section A Short questions

1 Multiple choice

6 marks

Choose the correct answer and circle the letter.

1.1 The smallest unit of life is the: **(1)**

(a) tissue (b) cell (c) organ

1.2 Where on the Periodic Table are the METALS found? **(1)**

(a) on the left-hand side (b) on the far right-hand side (c) only in the bottom row

1.3 Which part of a plant cell gives it its rigid shape? **(1)**

(a) cell wall (b) cell membrane (c) nucleus

1.4 A substance with a pH of 3 is: **(1)**

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

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

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

1.6 The transfer of pollen to the stigma is called: **(1)**

(a) pollination (b) fertilisation (c) germination

2 Column A and B

5 marks

2.1 Match the term in Column A with the description in Column B. **(5)**

Column A	Column B
1. Element	A. A substance that changes colour to show whether something is an acid or a base
2. Mixture	B. A pure substance that cannot be broken down into simpler substances
3. Indicator	C. A plant that produces its seeds in cones, for example a cycad
4. Gymnosperm	D. A group of organisms that are alike and can reproduce together to produce fertile offspring
5. Species	E. Two or more substances with different physical properties that are mixed together

3 Terminology

7 marks

3.1 Write the correct term next to each description. **(7)**

Description	Term
The process by which a plant makes its own food	
Cells of the same kind working together	
The variety of life in an area	
A substance with a pH above 7	
The only metal that is a liquid at room temperature	
Sorting living things into groups	
A mixture that looks the same throughout	

Section B Longer questions

4 Case study — 18 marks

SOURCE A · THE SCHOOL VEGETABLE GARDEN

The Grade 7 class planted a vegetable garden. They planted spinach in two beds.

Bed 1 stands in full sun. Bed 2 stands under a large tree and gets about two hours of sun a day.

After six weeks the spinach in Bed 1 was on average 24 cm tall with dark green leaves. Bed 2's plants were 9 cm tall with pale, yellow leaves.

Both beds had the same soil, the same compost and the same amount of water.

An investigation by the Grade 7 class.

4.1 Which ONE variable differed between the two beds? **(2)**

4.2 Name THREE things that were kept the same. **(3)**

4.3 Explain why Bed 2's plants were pale and yellow. **(3)**

4.4 Write down the word equation for photosynthesis. **(3)**

4.5 Why was it important that both beds received the same water? **(2)**

4.6 The class wants to repeat the test. Name TWO things they should do to make the result more reliable. **(2)**

4.7 Which part of the plant takes up water, and which part makes the food? **(2)**

4.8 Name ONE other factor that can affect plant growth. **(1)**

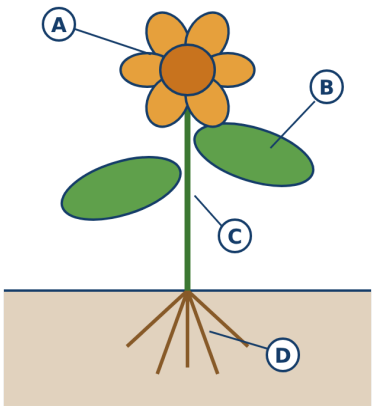
5 Diagrams and apparatus

14 marks

5.1 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
Aluminium (Al)	
Silicon (Si)	
Nitrogen (N)	

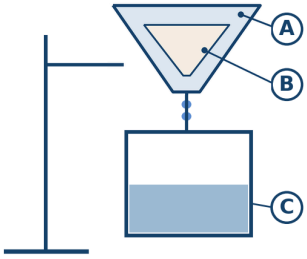
5.2 Study the plant below and name the parts A to D. **(4)**



A: _____ B: _____

C: _____ D: _____

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



A: _____ B: _____ C: _____

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

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

6 Longer questions

13 marks

6.1 A learner has a mixture of sand, iron filings and salt. Describe, step by step, how she can separate the mixture and collect all three substances. **(4)**

6.2 Arrange from smallest to largest and explain your order: organ · cell · tissue · organ system **(4)**

6.3 Name THREE ways seeds are dispersed, with an example of each. **(3)**

6.4 Explain why biodiversity matters to an ecosystem. **(2)**

Total **63 marks**



Free quizzes

Finished this test? Keep practising online!

More than 12 000 free questions for Grades 4 to 7, in every subject and aligned to CAPS. After every answer your child gets a short explanation. No registration needed, and it works on a phone.

meerkatskool.co.za

Scan with your phone to start right away

A small request from us

Thank you for supporting MeerkatSkool! We are a small South African business, and every paper is put together with great care.

This test and memo are a free sample: feel free to share them with other parents and teachers. Ask us about the full booklet: meerkatskool.co.za or WhatsApp 066 462 7629.

Thank you!
The MeerkatSkool team

Free quizzes
meerkatskool.co.za

Email
info@meerkatskool.co.za

WhatsApp and calls
066 462 7629

Help us improve

Found a mistake in this test? WhatsApp us straight away. We fix it within 24 hours and send you the new version.

Scan to WhatsApp us · 066 462 7629