



Q1: Materials around us		20
Q2: Solid materials		10
Total:		30

CONTROLLED TEST MEMO

9 JUNE 2025

NAME: _____

GRADE 4: _____

PARENT SIGNATURE: _____

TOTAL MARKS: 30

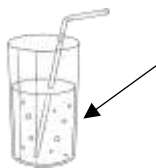
Question 1: Materials around us (20 Marks)

1.1) State whether the following diagram is a solid, liquid or gas.

(3)



SOLID



LIQUID



GAS

1.2) Explain the difference between the following:

A solid and a liquid.

(1)

A SOLID HAS A FIXED SHAPE AND A LIQUID DOES NOT HAVE A FIXED SHAPE.

A liquid and a gas?

(1)

A LIQUID TAKES ON THE SHAPE OF THE CONTAINER THAT IT IS IN. A GAS HAS NO SHAPE, BUT TAKES UP SPACE.

1.3) What do you call the change of state when: (Give one word only)

A solid gains heat and becomes a liquid.

(1)

MELTING

1.4) Underline the correct word for the following statement.

A gas changes to a liquid when the gas (loses/ gains) heat and condenses.

(1)

1.5) Differentiate between the terms 'melting point' and 'boiling point'.

(2)

MELTING POINT IS THE TEMPERATURE AT WHICH A MATERIAL MELTS. BOILING POINT IS THE TEMPERATURE AT WHICH A MATERIAL MELTS.

1.6) Name ONE material that is solid at room temperature.

(1)

CHOCOLATE, CHEESE BUTTER, CANDLE WAX

1.7) Name ONE material that will melt at room temperature.

(1)

ICE CREAM, ICE

1.8) What do you call the device that measures temperature?

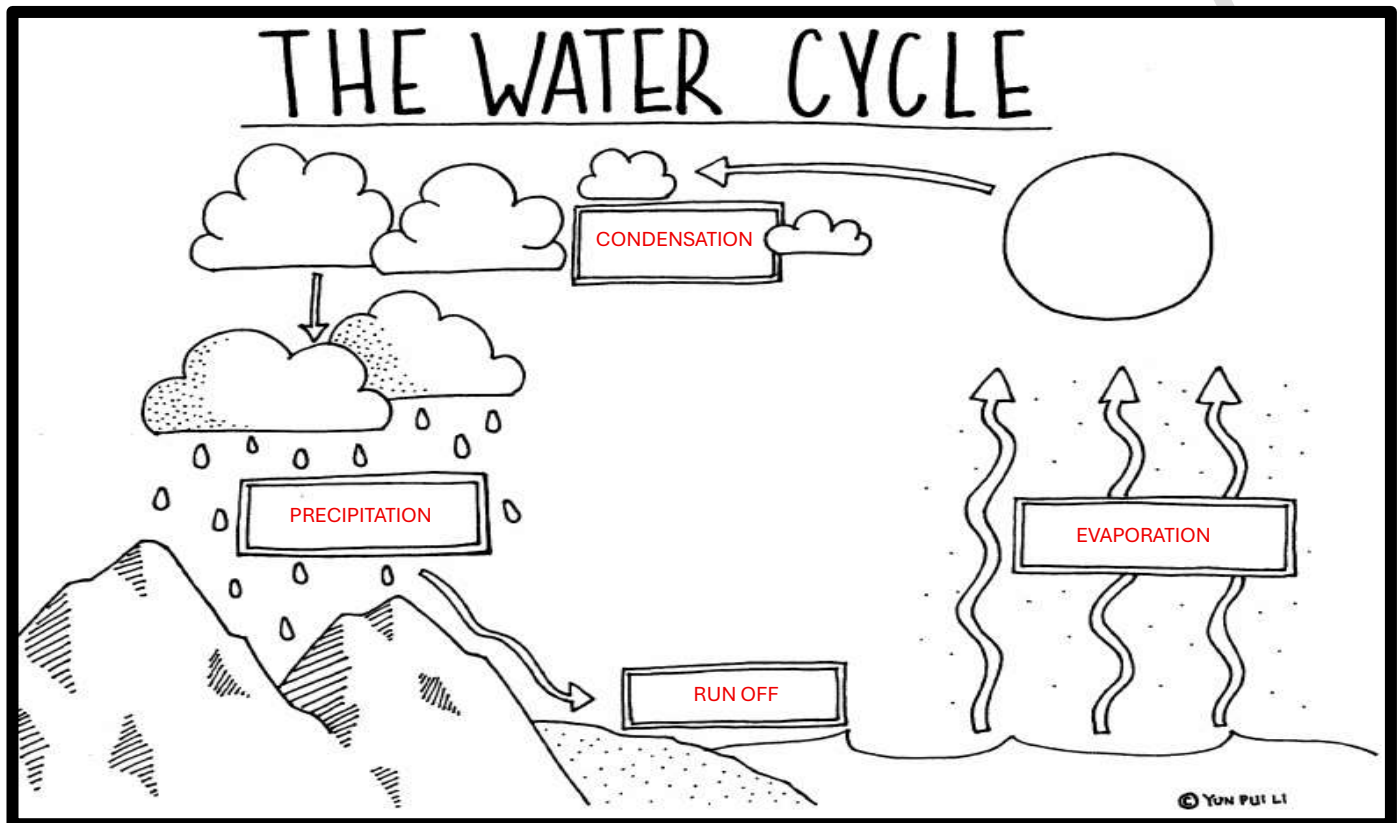
(1)

A THERMOMETER

1.9) Label the parts of the Water Cycle.

(4)

Use the following words: **Condensation, Precipitation, Evaporation, Run Off**



1.10) Name ONE way in which water can fall back to the Earth.

(1)

RAIN, HAIL, SLEET, SNOW

1.11) When a body of water is heated, it changes to a gas. Name this gas.

(1)

WATER VAPOUR

1.12) What do we call the water that seeps back into the ground?

(1)

GROUND WATER

1.13) Give ONE reason why living things need water.

(1)

DRINKING, COOKING, WASHING, RECREATION

Question 2: Solid materials (10 Marks)

2.1) Identify each object and state what they are used for.

- a)  BOWL (1)
MIXING OR STORING
- b)  SHOES (1)
TO WEAR ON YOUR FEET

2.2) Match the raw material used to make other materials.

(4x½=2)

RAW MATERIAL	OTHER MATERIAL
Clay	Fabrics and leather
Sand	Paper
Animal wool and hides	Ceramics
Wood and fibre	Glass

2.3) Complete the following sentence:

(1)

Pine trees are used to make **PAPER**.

2.4) Why must we recycle paper?

(1)

THERE ARE NOT ENOUGH FORESTRY TREES IN SOUTH AFRICA.

2.5) Define the term 'manufactured material'.

(1)

THEY ARE MATERIALS OR USEFUL THINGS MADE BY PEOPLE FROM NATURAL OR HUMAN-MADE MATERIALS.

2.6) Name ONE manufactured material formed from coal and oil.

(1)

PLASTICS, PAINTS, FABRIC

2.7) A property of a manufactured material can be light or heavy.

Give another example.

(1)

HARD OR SOFT, STIFF OR FLEXIBLE, STRONG OR WEAK, WATERPROOF OR ABSORBENT.

2.8) What does it mean when a material is 'malleable'?

(1)

YOU CAN SHAPE THE MATERIAL EASILY.