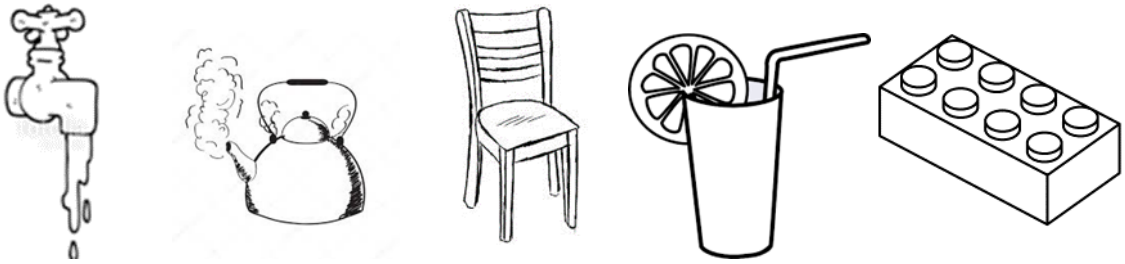
Natural Sciences and Technology Grade 4 Open Book Test Term 2 2020

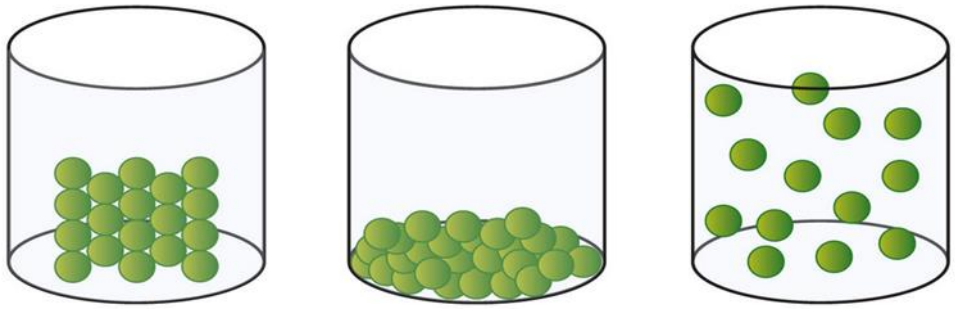
Section A

1. Look at the objects below. Decide if they are solids, liquids or gases. Place a ✓ in the correct column. (5)



Object	Solid	Liquid	Gas
Water from the tap			
Steam from the kettle			
Wooden chair			
Juice in the cup			
Lego block			

2. Look at the diagrams below and identify the phase of matter. (3)



2.1 _____ 2.2 _____ 2.3_____

3. Match the word in column A to the correct description of their molecules in column C. Write the letter in column B. (3)

A	B	C
Solids		a) The molecules are tightly packed. They can barely move.
Liquids		b) The molecules are loosely arranged. They are free to move upwards and outwards.
Gases		c) The molecules are free and have enough space for them to flow over one another. The molecules take the shape of the container.

4. Choose only the correct word to complete the following definitions. (4)

melting	condensing	freezing	evaporating

4.1 _____: when liquid water turns to ice.

4.2 _____: when water vapour turns to liquid water.

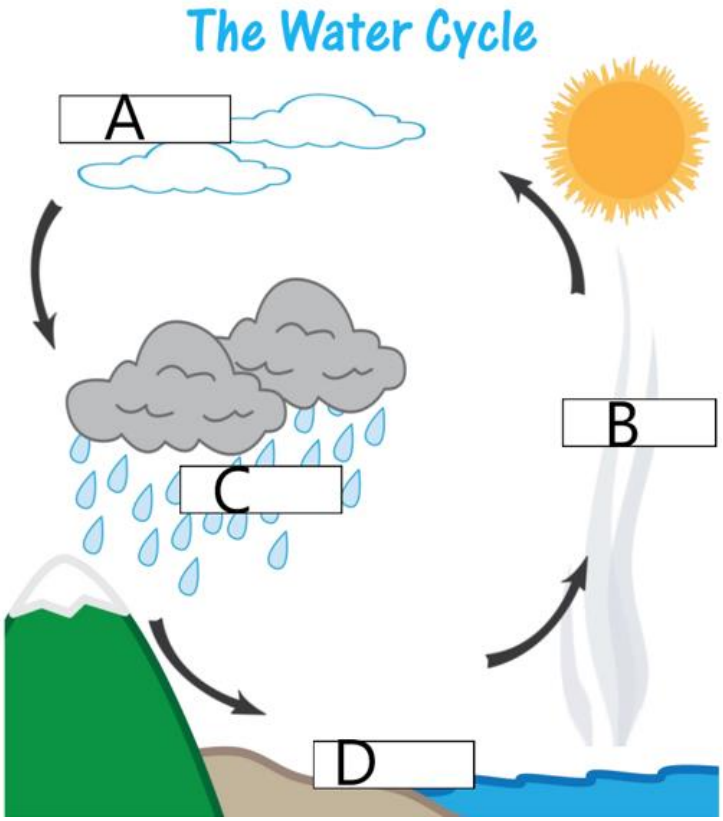
4.3 _____: when liquid water turns to water vapour

4.4 _____: when ice turns to liquid water.

Question 5

5.1 Label the water cycle diagram correctly. (4)

A _____ B _____ C _____ D _____



5.2 Names 3 types of precipitation. (3)

5.2.1 _____ 5.2.2 _____ 5.2.3 _____

5.3 Explain what would happen to your ice-cream if you left it out in the sunshine.

_____

_____(2)

Section B

6. Match the keyword in column 1 with the correct definition in column 3. Write the correct letter in column 2. (6)

1	2	3
triangulation		A. materials found in nature
alloy		B. a metal made from combining 2 or more metallic elements
process		C. materials that have been processed
manufactured material		D. perform a series of chemical or mechanical operations
metals		E. natural raw materials found in the Earth's crust
raw material		F. Adding struts in the shape of triangle

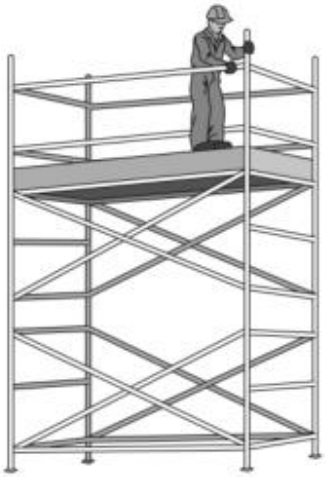
7. Complete the table by listing **the properties** of each raw material as well is its **uses**. (6)

Raw materials	Properties of raw materials	Uses
Cotton	7.1	7.2
Wool	7.3	7.4
Animal hides/leather	7.5	7.6

8. Paper can be strengthened by … (2)

8.1 _____ 8.2 _____

9. Scaffolding provides a strong structure for builders working on a building. Look at the picture and describe how materials are used to what make it so strong. (2)



Construction workers use scaffolding.

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