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NATURAL SCIENCES GRADE 8
TOPIC: PERIODIC TABLE, ATOMS, PARTICLE MODEL OF MATTER

INFORMAL TEST 2.1
MARKS: 15

Name and Surname: _____

Gr. 8 _____

Date: _____

SECTION A

QUESTION 1

1.1 Write the **LETTER** (A, B, C or D) of the correct answer on the line provided.

1.1.1 The smallest building blocks of matter are...

- A protons.
- B neutrons.
- C electrons.
- D atoms.

Answer: _____ (1)

1.1.2 A substance that CANNOT be broken down into simpler substances is ...

- A an element.
- B a compound.
- C a mixture.
- D a solid.

Answer: _____ (1)

1.2 Provide the correct **WORD** for each of the descriptions.

1.2.1 Molecules that consist of two identical atoms. _____ (1)

1.2.2 The part of the atom that consists of protons and neutrons. _____ (1)

1.2.3 The name of the element with the chemical symbol, **Ca**. _____ (1)
[5]

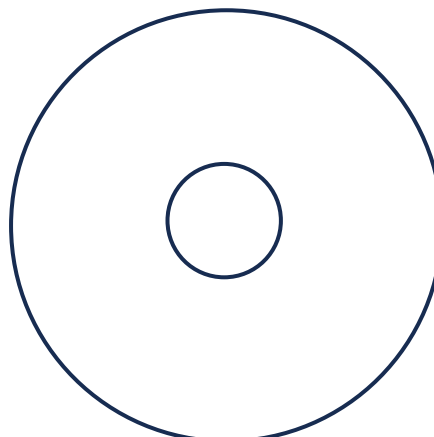
SECTION B

QUESTION 2

Answer all the questions by filling in the correct answers in the spaces provided.

2.1 Complete the model of a lithium atom, consisting of 3 protons, 3 electrons and 4 neutrons. Use the symbols indicated below to draw the particles in their correct positions in the atom.

Proton:	$\oplus$
Electron:	$\ominus$
Neutron:	$\bigcirc$



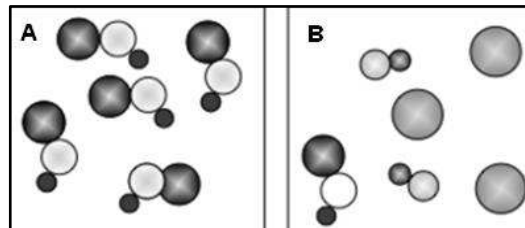
(3)

2.2 Complete the table below by drawing or filling in the missing information:

Name of element or compound	Chemical symbol	Diagram of the model
Carbon dioxide	CO ₂	
Nitrogen		

(2)

2.3 Study diagrams A and B:



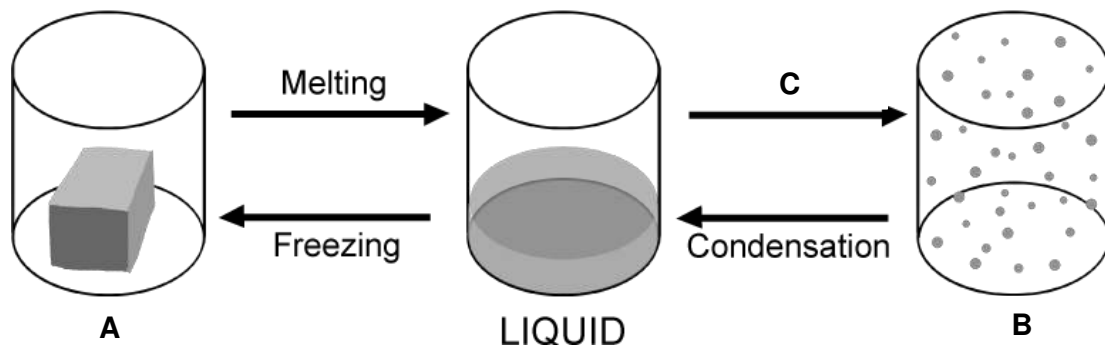
2.3.1 Explain why diagram A represents a PURE substance.

(1)

2.3.2 Explain why diagram B represents a MIXTURE.

(1)

2.4



2.4.1 Name the phase (state) of matter indicated by B. _____ (1)

2.4.2 Explain what will happen when the substance in A is heated.

(1)

2.4.3 Give the name of the process indicated by C.

(1)

TOTAL MARK: 15