

Revision Sheet #2 | Lower Secondary

Stage (6-8)

1st Semester | 2023-2024

Subject: Chemistry

Chapter 2: Elements, compounds and mixtures

Objectives:

- Define elements, periodic table and atoms
- Write chemical symbols of elements
- Describe properties of some elements and their uses

1 – Highlight the correct word or phrase in each **bold** pair in the statements below.

Iron and zinc are examples of elements. There is **one/ more that one** type of atoms in iron, and there is **one/ more than one** type of atoms in zinc.

The atoms in iron are **different from/ the same as** the atoms in zinc, so iron and zinc have **the same/ different** properties.

2- Choose a word from the list below to answer each of the following questions.

atom **model** **element** **compound** **natrium**
periodic table **ferrum** **chemical symbol**

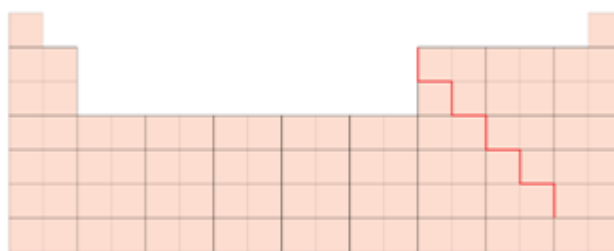
- a- A substance that is made from one type of atom and cannot be split into other substances.
- b- The Latin name for ironand the Latin name sodium is
- c- The one-to-two letter code of an element.
- d- The smallest particle of an element that can exist.

3- Choose the correct answer.

- Which sentence is completely correct? Choose **one** answer
 - a- The diameter of an atom is 0.0001 cm.
 - b- There are the same number of types of atoms as there are types of elements.
 - c- Neon atoms are larger than helium atoms, so a neon atom must be made of other smaller type of atoms.
 - d- Each element is made up of one or more type of atoms.

- Which sentence is correct? Choose **two** answers.
 - a- An element can be split into other substance if the right conditions are used.
 - b- Substances that have only one type of particle are elements.
 - c- Every material in the universe is made up of the particles of one or more element.
 - d- Elements are mixtures of two or more substances.

- The diagram shows a simplified periodic table. Which sentence is correct?
Choose one answer.
 - a- The periodic table lists the most important elements.
 - b- Each square represents one element.
 - c- The periodic table groups together mixtures with similar properties.
 - d- Elements with different properties are found close together in the periodic table.



4- The diagram shows a simplified part of a periodic table.

H hydrogen								He helium
Li lithium	Be beryllium	B boron	C carbon	N nitrogen	O oxygen	F fluorine	Ne neon	
Na sodium	Mg magnesium	Al aluminium	Si silicon	P phosphorus	S sulfur	Cl chlorine	Ar argon	

a- Which of the following are chemical symbols for metal elements?

Si Al S Ar Na

b- Name the element that can be found in all living things.

c- Name two elements that are found in the atmosphere.

d- Explain why can't we find H₂O in the periodic table.

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e- What other elements would have similar properties as Helium? Name two.

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5- Different elements have different properties. Match each element description on the left with the correct use on the right.

Helium is a gas that is lighter than air.

● ● food cans

Neon is a gas that glows when electricity passes through it.

● ● jewellery

Gold is a shiny metal.

● ● balloons

Aluminium is a light, non-toxic metal.

● ● advertising signs

6- Complete the following table.

Name of the element	Chemical symbol
hydrogen	
	Be
potassium	
	Ne
carbon	
calcium	
	Na
phosphorus	
fluorine	
	Cl
lithium	
	S
Magnesium	