

## Revision Sheet #2 | Lower Secondary Stage (6-8)

1st Semester | 2023-2024

Subject: Chemistry	Chapter 2: Elements, compounds and mixtures
Objectives:	

**Answer key** 

- 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.

element

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

	periodic table	terrum	chemical symbol
a-	A substance that is made	e from one type of ato	m and cannot be split into other
	substanceseleme	nt	
b-	The Latin name for iron	<mark>ferrum</mark> and the Lati	n name sodium is <b>Natrium</b>
C-	The one-to-two letter co	ode of an element	chemical symbol
d-	The smallest particle of	an element that can ex	kist <b>atom</b>



atom



model







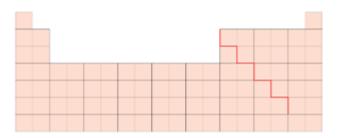
compound



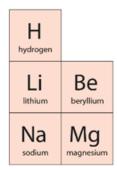


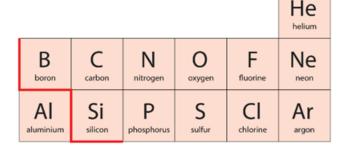
natrium

- 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 that 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.





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

Si

Αl

S

Ar



- b- Name the element that can be found in all living things. ... Carbon......
- c- Name two elements that are found in the atmosphere. ..... Hydrogen and Helium
- d- Explain why can't we find  $H_2O$  in the periodic table.
  - Because the periodic table lists only elements and H<sub>2</sub>O can be split into two substances (Hydrogen and Oxygen)
- e- What other elements would have similar properties as Helium? Name two.

Elements in the same group as Helium: Neon and Argon.

**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.

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

Aluminium is a light, non-toxic metal.



## **6**- Complete the following table.

Name of the element	Chemical symbol
hydrogen	Н
Beryllium	Ве
potassium	K
Neon	Ne
carbon	С
calcium	Са
Sodium	Na
phosphorus	P
fluorine	F
Chlorine	CI
lithium	Li
Sulfur	S
Magnesium	Mg