

Revision Sheet #1 Answer Key | Lower Secondary

Stage (6-8)

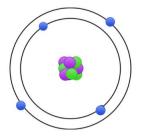
1st Semester | 2023-2024

Subject: Science/ Chemistry **Objectives:**

Chapter: 4

- - Understand that the periodic table is a way to sort elements. •
 - Identify different groups in the periodic table. •
 - Describe Acids, Bases and Alkalis. •

1 – Name the structure below and then answer the following questions about it.



This is a/an _atom____

It is the smallest unit of matter that forms <u>elements</u>

- a- Referring to the periodic table, give the name of the element that the above structure represents. Berelium
- b- In which group will you find this element? Group 2
- c- What type of element is it? Metal
- d- Name two other elements that you find in the same group.

Magnesium - Calcium - Barium - Radium

e- When this element reacts with Oxygen it forms an oxide that is used in nuclear reactors. Write down the chemical formula for this compound.

BeO



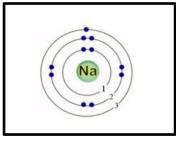




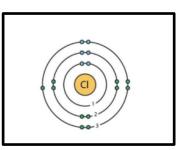




f- Referring to the periodic table, draw the basic units for **Na** and **Cl**.



Sodium



Chlorine

2- Choose the correct answer.

A solution with a pH 8.6 indicates

- a- a strong acid
- b- a weak acid
- c- a strong alkali
- <mark>d- a weak alkali</mark>

An indicator turns into dark red when added to an acidic solution. This means that this solution is

a-	diluted	b- alkaline
C-	neutral	d- <mark>corrosive</mark>

When a very strong alkali reacts with the universal indicator it will change into

a- dark red	b- blue
c- green	d- <mark>dark purple</mark>

When Hydrochloric Acid reacts with Potassium Hydroxide the salt will be

a- Sodium Chloride	b- <mark>Potassium Chloride</mark>
c- Potassium Oxide	d- Potassium Chloride

When Sulphuric Acid (H₂SO₄) reacts with Sodium Hydroxide (NaOH) the products are

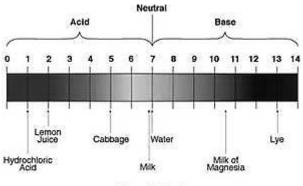
<mark>a-</mark> H₂O + NaOH	b- <mark>H₂O + Na₂SO₄</mark>
c- H ₂ O + Na Cl	d- H₂O + Na₂O
Which of the following is an alkali?	
a- water	b- orange juice
c- dishwashing detergent	d- vinegar

Choose the correct statement

- a- Only acids conduct electricity
- b- Only alkalis conduct electricity
- c- Acids and alkalis don't conduct electricity
- d- Acids and alkalis conduct electricity

According to the pH range given in the image, which substance is more acidic than lemon juice?

- <mark>a- HCl</mark>
- b- Milk
- c- Water
- d- Lye



The pH Scale

Which of the following is not a base?

a- NaOH b- NH4OH	c- <mark>HNO₃</mark>	d- Ca(OH)₂
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3 – Estimate the pH for the following substances.

	Estimated pH
Baking soda	8-9
Lemon juice	2-3
Hand soap	10
Water	7
Bleach	13
Corrosive acid	1