

CHEMISTRY WORKSHEET

SMAIT AL USWAH TUBAN

CLASS X 2024/2025

BASIC PARTICLES OF ATOM



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GROUP NAME:

Learning Objectives

1. Student can mention the basic particles of atoms
2. Students can differentiate the notation for neutral and charged atoms
3. Students can determine the number of atomic numbers, mass numbers, neutrons, protons and electrons

Apperception

Did you remember, who discovered electrons?

Identification of problems

let's watch this video!

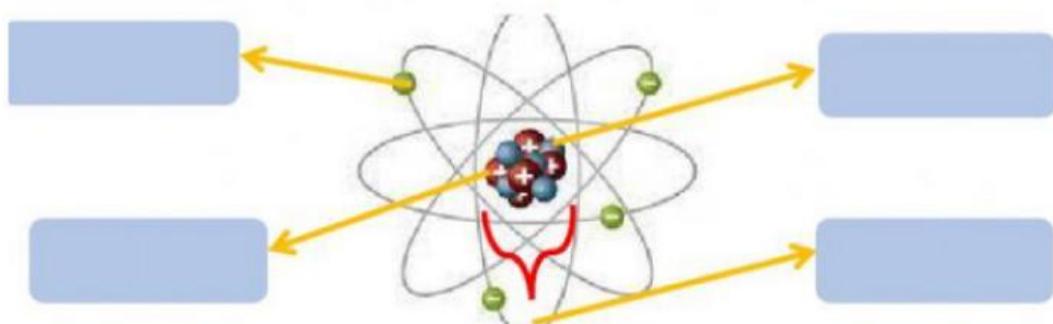
<https://www.youtube.com/shorts/jCFpB9xUHpg?feature=share>

What do you think about the video?

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Activity 1

Analysis of the particles of atoms!



Activity 2

Explain atomic notation

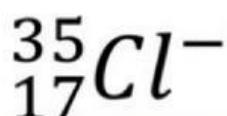


Activity 3

Explain the notation for charged atoms (ion)!



Contoh :



Jumlah Proton (p) = 17

Jumlah Elektron (e) = 17 - 1

Jumlah Neutron (n) = $35 - 17 = 18$

Activity 4

Complete the following table with your group!

Unsur	Nomor Atom	Nomor Massa	Jumlah partikel Sub atomik		
			Proton	Elektron	Neutron
$^{12}_6C$	6	12		6	
$^{14}_7N$					
$^{13}_6C$					
$^{24}_{12}Mg^{2+}$					
$^{16}_8O^{2-}$					

Conclusion

Write a conclusion from today's lesson in Indonesian!

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