

Worksheet Number (3)

Grade & Section: 6th ()

Unit: 1

Student's Name: _____

Date: ____/____/____

Lesson: Atoms (pages 22 + 23)

Educational Outcome: Identify the atom's parts

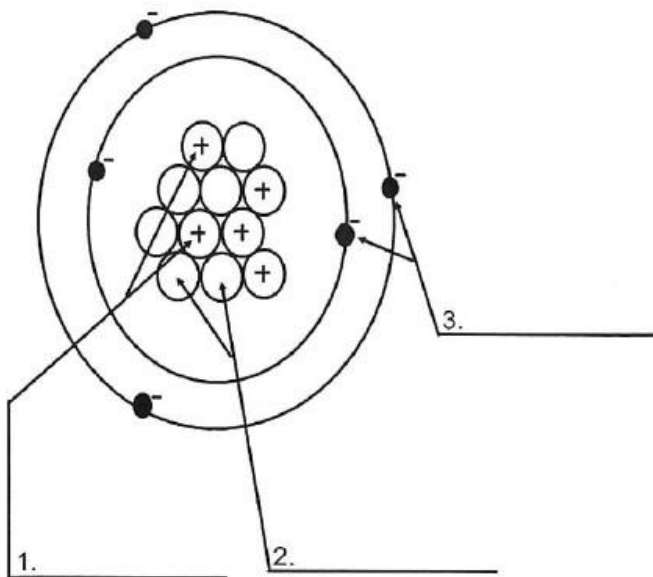
Atom is the smallest particle of an element that has the properties of the element.

Activity 1:

Watch the video then answer the following questions:

<https://www.youtube.com/watch?v=ajg07Dnc1BQ>

Label the parts of an atom on the diagram below.



4. What type of charge does a proton have?
5. What type of charge does a neutron have?
6. What type of charge does an electron have?
7. Which two subatomic particles are located in the nucleus of an atom?

Activity 2:

Complete the following table to compare between proton, electron and neutron

	Proton	electron	neutron
Location			
Charge			

The atomic number: is the number of protons in an atom

Activity 1 :

Fill in the blank

The atomic number tells you the number of _____ in one atom of an element. It also tells you the number of _____ in a neutral atom of that element.

No two different elements will have the _____ atomic number.

Activity 2 :

look at the following figure and answer the following

13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA
5 B 10.811	6 C 12.0112	7 N 14.0067	8 O 15.9994	9 F 18.9984	2 He 4.0026
13 Al 26.9815	14 Si 28.086	15 P 30.9738	16 S 32.064	17 Cl 35.453	10 Ne 20.179
31 Ga 65.37	32 Ge 72.59	33 As 74.9216	34 Se 78.96	35 Br 79.909	18 Ar 39.948
					36 Kr 83.80

a. Give the symbol and number of protons in one atom of:

Helium :

Nitrogen:

Neon :

Oxygen:

b. How many electrons are found in a Chlorine atom?

c. True or false

1. Electrons dart around the nucleus in high-speed motion (very fast).
2. atoms of an elements can have different numbers of neutron.

d. Explain helium-filled ballon rises through the air.

