

## Worksheet Number ( 3 )

Grade & Section: 6<sup>th</sup> ( )

Unit: 1

Student's Name: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

### Lesson: Atoms (pages 22 + 23)

**Educational Outcome:** Identify the atom's parts

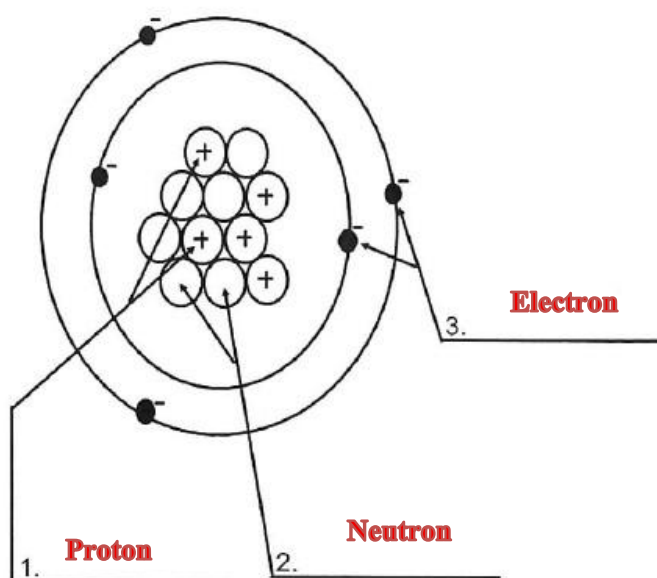
Atom is the smallest particle of an element that has the properties of the element.

#### 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?

**Positive**

5. What type of charge does a neutron have?

**No charge**

6. What type of charge does an electron have?

**Negative**

7. Which two subatomic particles are located in the nucleus of an atom?

**Proton and Neutron**

#### Activity 2:

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

	Proton	electron	neutron
Location	Inside nucleus	Outside nucleus	Inside nucleus
Charge	Positive	Negative	No 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 Proton in one atom of an element. It also tells you the number of electron in a neutral atom of that element.

No two different elements will have the same atomic number.

**Activity 2 :**

**look at the following figure and answer the following**

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

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

Helium : **He 2**

Nitrogen: **N 7**

Neon : **Ne 10**

Oxygen: **O 8**

b. How many electrons are found in a Chlorine atom? **17**

c. True or false

1. Electrons dart around the nucleus in high-speed motion (very fast). **True**

2. Atoms of an element can have different numbers of neutron. **True**

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

**Because helium is light**



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