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## metals non and metals test Chemistry الملف

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More files for 8th Grade, Subject Chemistry, Term 1		
Chemistry Skill Test	1	
<u>Chemistry Test</u>	2	
Chemistry Test	3	
Worksheet about Chemistry Review	4	
Worksheet about Chemistry Exercises	5	

Name:	
Grade 8 Test	
Exercise: 1 Atom Complete the sentences below using the atom	nic Structure omic model of sulfur:
P: 16 N: 16 0	
Sulfur atom consists of 2 parts:	and
2. The nucleus of sulfur atom contains 16	and 16
3. The are null charged pa	articles.
4. In sulfur atom, there are negative	ly charged particles the nucleus.
5. The negatively charged particles are cal	led
6. Sulfur atom is	, then the number of
(positively charged particles) ischarged particles).	to the number of (negatively
Aluminum solid is ductile, malleable and o	Non-Metals of density 2.7g/cm <sup>3</sup> . A piece of aluminum of ver, Sulfur is tasteless and does not conduct int is low (115.2°C).
1- Pick out, from the text, the extensive an	d the intensive properties.
Extensive properties: and -	
Intensive properties: an	d

2- Classify aluminum and sulfur elements as metal or non-metal.

Aluminum is a
Sulfur is a
1 Aluminum is a ductile and malleable solid. Define the terms "Ductility" and nalleability"

Ductility: -----

Malleability: -----

3.2- Predict whether the melting point of aluminum is 660°C, -25°C or 35°C.

The melting point of aluminum is -----

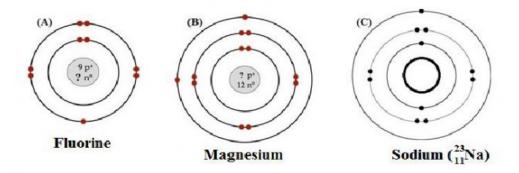
4- List, from your own knowledge, three other characteristics of aluminum and sulfur.

Aluminum	Sulfur

## Exercise: 3 Atomic models

Magnesium fluoride and sodium fluoride are chemical compounds. Magnesium fluoride is a white crystalline <u>salt</u> with commercial uses in optics but sodium fluoride is primarily used, as a medication, to prevent tooth decay in children older than 6 month.

The figures below show the models (A), (B) and (C) of Fluorine, Magnesium and Sodium.



1- Referring to model (A):

1.1- Choose among the values below the one that corresponds to the number of electrons in the fluorine atom.			
a. 10 b. 9 c. 11			
1.2- Show that this model is a neutral atom.			
then this model is a neutral atom			
1.3- Calculate the number of neutrons knowing that the mass number of fluorine atom is 19.			
Mass number = number of+ number of			
Number of neutrons = number - number of			
=================================			
<ul><li>2- Referring to model (B):</li><li>2.1- Give the composition of the magnesium atom.</li></ul>			
Magnesium atom is made of and and			
Since the atom is then the number of			
protons is equal to the number of thus the number of			
protons is			
2.2- Determine the atomic number of this atom.			
Atomic number =			
2.3- Calculate the number of nucleons in the nucleus of this atom.			

Number of nucleons =	number of	+ number of -	=
+			
=			
2.4- Deduce the mass no	umber of this ato	om.	
Mass number = nu	ımber of	=	
3-For model (c)	22		
3.1. Fill in the table belo	1.1	Na	
Symbol of element	Atomic number	Mass number	

## 3.2. Complete the table below:

Number