

تم تحميل هذا الملف من موقع المناهج المصرية



## حل أسئلة الوزارة الأسبوع الأول

موقع المناهج ← المناهج المصرية ← الصف الأول الإعدادي ← كيمياء ← الفصل الثاني ← حلول ← الملف

تاريخ إضافة الملف على موقع المناهج: 23:13:11 2025-02-21

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المزيد من مادة  
كيمياء:

## التواصل الاجتماعي بحسب الصف الأول الإعدادي



صفحة المناهج  
المصرية على  
فيسبوك

المزيد من الملفات بحسب الصف الأول الإعدادي والمادة كيمياء في الفصل الثاني



**The first week**  
**First year of middle school**

**Unit one**

**Lesson one**

**Classroom performance**

The following table shows some materials & their properties.

A- Choose from column (B, C, D) what matches column (A)

B -Then determine which one is a metal and which one is a non-metal?  
and why?

Element	Physical state	Electric conductivity	The colour
1- Oxygen	Solid	Good conductor	Black
2- Gold	Liquid	Bad conductor	Colourless
3- Carbon	Gas	Bad conductor	Yellow
4- Bromine	Solid	Good conductor	Waxy white
5- Nitrogen	Solid	Bad conductor	Silver
6- Mercury	Gas	Bad conductor	Colourless
7- Phosphorus	Liquid	Good conductor	Red

1- oxygen -gas -bad conductor - colorless **Non metal**

2- gold - solid - good conductor -yellow **Metal**

3-Carbon -solid - good conductor - black **Non metal**

4- bromine - liquid- bad -red **Non metal**

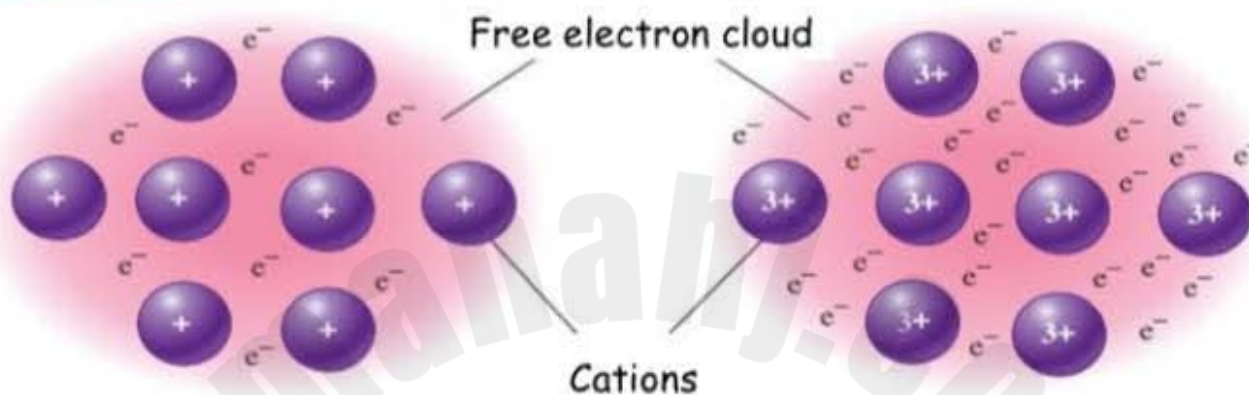
5- Nitrogen -gas - bad -colorless **Non metal**

6-Mercury - liquid-good- silver **Metal**

7- phosphorus - solid- bad- waxy white **Non metal**



The following figure shows a bond between two different elements:



1- What are the types of the two elements in the figure? And why?

**Both are metals because the valence electrons are less than 4**

2- What is the valency of each?

**The left is monovalent right is trivalent**

3- What is the type of bond in both of them?

**Metallic bond**

4- Which is stronger in terms of bond? And why?

**The right metal bec it has more valence electrons**



What is the benefit of recycling metal wastes?

Two elements (A & B) have melting points of (1538 - 115.21) respectively.

A- What is the type of each one of them? And why?

**A is metal bec it has high melting point, B is non metal bec it has low melting point**

B - Which one of them is a good conductor of electricity?

**A is good conductor of electricity**

C) Which one of them is malleable and ductile?

**A is malleable & ductile**

What happens in each of the following:

1- Knocking on a piece of graphite.

**It crumbles easily bec it is a brittle non metal**

2- Increasing the number of valence electrons in metal atoms according to the metallic bond.

**The metallic bond becomes stronger**

3- Mixing molten gold with molten copper.

**it forma an alloy with unique properties and it becomes more hard**



## The first week

### First Prep.

### Unit one

### Lesson One

### Home Work

Cross out the odd word, then write the relation between the remaining words:

1- Gold - Silver - Bromine - Mercury **Metals**

2- Phosphorus - Bromine - Mercury - Sulfur **Solid non metals**

3- Graphite - Bromine - Phosphorus - Sulfur **Bad conductors of electricity**

4- Iodine - Sulfur - Carbon - Hydrogen **Solid non metals**

5- Bronze - Chlorine - Copper - Tin **Bronze alloy**

Give reasons for the following:

1- Calcium ( $_{20}\text{Ca}$ ) is a metal while chlorine ( $_{17}\text{Cl}$ ) is a non-metal.

**Bec calcium 2,8,8,2 has 2 valence electrons while chlorine 2,8,7 has 7 valence electrons**

2- Carbon is used in the manufacture of dry cells, although it is a non-metal

**... Bec it is a good conductor of electricity .....**

3- Calcium ( $_{20}\text{Ca}$ ) is more in hardness than sodium ( $_{11}\text{Na}$ ).

**Because it has more valence electrons .....**

4- Bronze alloy is used in the manufacture of medals instead of copper.

**Because it is more hard than copper and resistance to rusting**



## The first week

### First Prep.

### Unit One

### Lesson One

### Weekly test

#### What is meant by each one of the following:

- 1-Metallic bond      The attraction force between the positive metal ions and the negative valence electron cloud which surrounds them.
- 2-Alloys      A mixture composed of the melts of two or more metals.
- 3-Recycling      The process of the conversion of the wastes into new usable substances.

#### How do you differentiate between each of the following:

##### 1-Phosphorus - Iron in terms of:

- a) Metallic luster      **P no lustre , Fe lustre**
- b) Malleable and ductile      **P neither malleable nor ductile , Fe malleable & ductile**
- c) Conductivity of heat and electricity      **P bad conductor , Fe good conductor**
- d) Melting point      **P low melting point , Fe high melting point**

##### 2-Sodium and Graphite in terms of:

Metallic luster - which one is opaque      **Na lustre  
graphite opaque**

##### 3-Sulfer and Copper in terms of:

Malleable and ductile - Which one is more brittle

**Sulphur brittle , copper malleable & ductile**



**silver good conductor phosphorus bad conductor**

4-Silver and Phosphorus in terms of:

Conductivity of electric current

Complete the following sentences:

- 1-The outermost energy level of metals contains less than.....**4** electrons, while non-metals contain more than.....**4** electrons
- 2-Element (A), with its outermost energy level (M) containing two electrons is a **Metal** while element (B) with its outermost energy level (L) contains six electrons is a.....**Non metal**
- 3-All metals are solids except for.....**Mercury** which is a liquid.
- 4-All non-metals are bad conductors of electricity except for.....**Graphite** which is a good conductor of electricity.
- 5-All non-metal are solid materials such as ..... , gaseous materials such as **Oxygen**.. and the only liquid is **Bromine**  
**crystal cluster**
- 6-The atoms of solid metals are arranged in a structure known as .....
- 7-The metallic bond is formed due to the attraction between positive **cation** ..... of metal and the cloud of valence negative .....**Valence electrons** surrounding it
- 8-The bronze alloy is composed of.....**Tin** at 5% and .....**Copper** at 95%
- 9-The bronze alloy is used in manufacturing .....**Medals** and .....**Statues**
- 10-The bronze alloy is characterized by being more.....**Hard** than copper and **Resistance** to rust