



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
- 2- Phosphorus - Bromine - Mercury - Sulfur
- 3- Graphite - Bromine - Phosphorus - Sulfur
- 4- Iodine - Sulfur - Carbon - Hydrogen
- 5- Bronze - Chlorine - Copper - Tin

Give reasons for the following:

- 1- Calcium ($_{20}\text{Ca}$) is a metal while chlorine ($_{17}\text{Cl}$) is a non-metal.
.....
- 2- Carbon is used in the manufacture of dry cells, although it is a non-metal
.....
- 3- Calcium ($_{20}\text{Ca}$) is more in hardness than sodium ($_{11}\text{Na}$).
.....
- 4- Bronze alloy is used in the manufacture of medals instead of copper.
.....



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?

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

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C) Which one of them is malleable and ductile?

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What happens in each of the following:

1- Knocking on a piece of graphite.

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

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3- Mixing molten gold with molten copper.

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