Metal or non-metal

This task is about testing elements to see if the are metal or non-metal.

Carry out a series of tests on the elements listed below to find out if they are a metal, or a non-metal. Elements to be tested; magnesium (Mg), calcium (Ca), carbon (C), sulfur (S), zinc (Zn), copper (Cu), iodine (I), and aluminium (Al). You will need to carry out tests for; lustre, electrical conductivity, malleability.

The melting point of these elements has been put in the table.

Tests:

- . Malleability does it bend or can it be beaten into shape?
- . Electrical conductivity set up a simple circuit using a cell, wires, and bulb.
- . Lustre does it shine when it is scratched or sanded?
- a)Complete this table with your results.

Element	Malleability (yes or no?)	Melting point (high or low?)	Electrical conductivity	Lustre (yes or no?)
Magnesium		648°C		
Calcium		839°C		
Carbon (graphite)		3550°C		
Sulfur		112°C		
Zinc		419°C		
Copper		1083°C		
Iodine	No	113°C	No	No
Aluminium		660°C		

	Check your results with your teacher in the same characteristics? Place these elements into two sups based on these characteristics
	Group 1: Group 2:
c)i)	Name any element(s) which does/do not appear to fit easily into either of these two groups.
ii)	Why did you decide that this element(s) did not fit in with the others? ;
d)Lo	ok at a periodic table. On which side do you find the elements that do not have lustre,
ma	alleability, or can not conduct electricity?