

IB Chemistry SL Summer Homework

Complete this packet by the first day of school. There will be a summer homework quiz the first week of school.

For the history of the atom, list the experiment (if any) that was used by the scientist and give the part of the atom they discovered.

Scientist	Experiment	Discovery (part of atom)
Dalton		
JJ Thomson		
Rutherford		
Bohr		

Give the charge, mass, and location of the following subatomic particles.

	Charge	Mass	Location
Proton			
Neutron			
Electron			

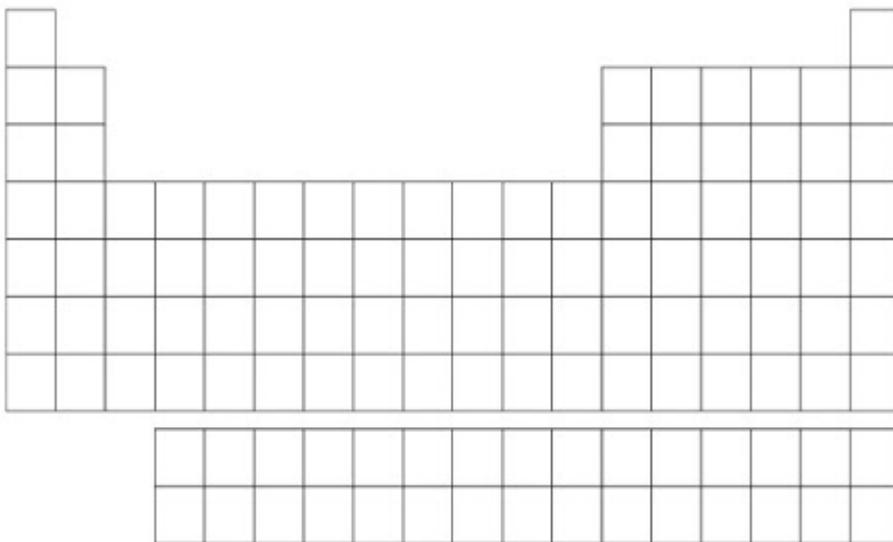
Complete the chart below using a periodic table as needed.

Watch for instructions: <https://youtu.be/yooYnW8uhHk>

Name of Element	Element Symbol	Mass Number	Atomic Number	Protons	Neutrons	Electrons
Boron	B	11	5	5	6	5
Sodium ion		24	11			10
	Y	89				39
Copper			29		35	
	Tc	98		43		

On the periodic table, identify the following: **metals, nonmetals, metalloids, alkali metals, alkaline earth metals, transition metals, halogens, noble gas, lanthanoides, actinoides, s block, p block, d block, f block.**

PERIODIC TABLE OF ELEMENTS



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Define the following terms:

	Definition
Effective nuclear charge	
Shielding	
Atomic radius	
Ionization energy	
Electronegativity	
Electron affinity	

Complete the table below by naming the ionic and covalent compounds or give the formula.

Name	Formula
Sulfur trioxide	SO ₃
	PH ₃
	BF ₃
	N ₂ S
Iron (III) Chloride	
Sodium Nitrate	
Magnesium Hydroxide	
Aluminum Oxide	
	FeO
	H ₂ SO ₄
	KClO ₃
	CaS
Nitric Acid	
Diphosphorus pentoxide	
Nitrogen trihydride	NH ₃
Carbon dioxide	