Atomic Theories - Review Exercises

Exercises

Use your class notes and your book to complete the following exercises.

1. Use the Periodic table to answer the following questions:

A) For the Atoms Magnesium and Fluorine **complete the following table**

Atom	# of Protons	# of Electrons	# of Neutrons	Atomic Mass	Atomic Number	Chemical Symbol
Magnesium						
Fluorine						

B) Draw the **Bohr-Rutherford diagram** for each atom

Magnesium	**Fluorine**

C) Complete the following table to illustrate what happens when the two atoms combine to form a molecule

Possible charge on the atom during bonding		**Possible formula of the compound formed**	**Lewis Dot Diagram for Each Atom**	**Possible type of compound (ionic or covalent .. explain)**
Magnesium				
Fluorine				

2. Complete the following table to explain the MAIN differences between atomic theories and their importance in the development of the Model of the Atom

Scientist & approximate Date	Name of Model or Sketch	Importance or Improvement on previous model	Shortcomings - Problems or why was it changed
Democritus c.300 BC			
Dalton c.1800			
J.J. Thomson c.1850			
Rutherford c. 1905			
Bohr-Rutherford c. 1920			
