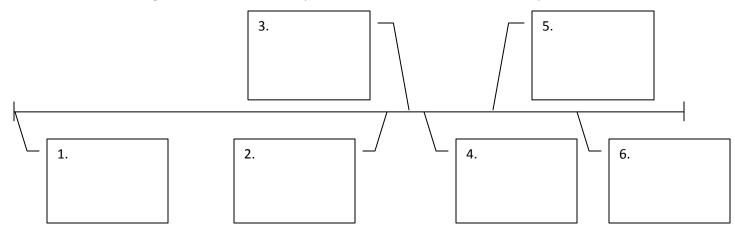
Unit 03 Review - Atomic Theory and Structure

1. Fill in the following timeline to show the important discoveries in the atomic theory.



2. <u>Explain J.J.</u> Thomson's cathode ray tube experiment (including what he did, what the results were and how it contributed to his new atomic model).

3. <u>Explain</u> Ernest Rutherford's gold foil experiment (including what he did, what the results were and how it contributed to his new atomic model).

- 4. Write **both** electron configurations and orbital diagrams for the following elements:
 - a. Chlorine
 - b. Iridium

	Dalton's Model	Thomson's Model
	Rutherford's Model	Bohr's Model
What did Nie	ls Bohr discover about electrons and	how did it change the model of the atom?
Draw Bohr at	omic models and Lewis Dot diagram	
	<u>Phosphorous</u>	<u>Beryllium</u>

	Element Name	Protons	Neutrons	Electrons	Mass	Isotope
8.	Helium			2	5	
9.	Cobalt		33			
10.						²⁴³ Am