

**Science 10**  
**Unit 3 – Chemistry-Unit Outline**

Introduction to Chemistry	Classroom Procedures and Program Goals	Teacher will outline the main class procedures including the marking system, expectations and lab safety.
	Power Point on a Short History of our Ideas about Matter	
	Early Search for Elements Worksheet	A worksheet based on the "History" Power Point and material from the text.
The Structure of the Atom	Activity 8C - Preparing the Element Hydrogen	This is an experiment in which you will prepare hydrogen gas and discover some of its properties.
	Power Point on the models of atomic structure	The Power Point presentation will explain the Bohr-Rutherford model of the atom, protons, neutrons, electrons and atomic number. Isotopes and atomic mass will also be introduced.
	Assignment on Atomic Structure	A worksheet on the material presented on atomic structure will be assigned.
	Power Point on Atoms and Ions	Students will be shown what atoms and ions are and how to determine the numbers of protons, neutrons and electrons in neutral atoms and ions.
	Assignment on Atoms and Ions	A worksheet on the material on atoms and ions will be assigned.
The Periodic Table	Power Point on the Periodic Table	The presentation will briefly outline the history of the development of the Periodic Table and discuss Mendeleev's version. The modern Periodic Table will then be discussed and periods (rows) and families (columns) will be discussed. The locations of the Noble Gases, Alkali Metals, Halogens and Hydrogen, electron arrangements and properties of the elements in each family will be discussed.