Pre-DP Chemistry: Course Outline

This course aims to familiarize students with the basic concepts on Chemistry, the study of matter. The focus of the course will be on two broad topics:

1. The nature of matter: what stuff is made from and how it is built
2. The mole and matter: how we can compare different stuff

The course will run accordingly:

1. The nature of matter: approximately the first three weeks (Topics 1.1, 1.2, 2.1 2.3 (up to pg. 60) and 4.1)
2. The mole and matter: approximately the following three weeks (Topics 1.3, 2.3, 3.2, 4.2

The names of the topics to be covered are therefore:

-Topic 1: Atomic theory and stoichiometry (all subtopics)

-Topic 2: Electron structure and chemical bonding

Subtopic 2.1: Electron configuration

Subtopic 2.3: Chemical bonding

-Topic 3: Inorganic chemistry

Subtopic 3.2: Classification of chemical reactions

-Topic 4: Solutions and concentration

Subtopic 4.1: Composition and classifications of solutions

Subtopic 4.2: Concentration expressions and stoichiometry

1. Hands on Chemistry: two lessons
2. Review

Assessment will be based upon the following:

1. Participation during the lessons: students are expected to show up on time, ask questions, answer questions and contribute to classroom discussions. Absences must be explained as soon as possible.
2. Performance on a final examination: During the exam week, there will be an examination based upon the course contents.

Welcome to explore! Come with a positive attitude. Be ready to be challenged and to challenge yourselves.