



<b>Enseignement secondaire</b>		
<b>Classes internationales</b>		
	<b>Régime anglophone</b>	
<b>Chimie</b>		
<b>Programme</b>		
<b>4IEC</b>		
Leçons hebdomadaires: 1,5		
Langue véhiculaire: anglais		
Nombre minimal de devoirs par trimestre: 1		

### **Aims :**

- To lay the foundation for sciences studies
- To develop scientific culture, scientific interests and curiosity
- To prepare chemistry teaching for the IB diploma

### **Skills and objectives**

- To develop the ability of observation
- To promote precise formulation
- To initiate scientific reasoning
- To develop manual skills in experimentation



## Syllabus for the chemistry course

### 1. States of matter

- Introduction to particles
- Solids, liquids and gases
- Pure substances and mixtures
- Different separation methods

### 2. Structure of atoms

- Difference between atom and element
- Isotopes and particles in an atom
- Electronic structure of the atoms, shells
- Lewis structure

### 3. Bonding in atoms

- Ionic bonding
- Introduction to ions, charges and names of ionic compounds
- Properties of ionic compounds
- Covalent compounds and giant covalent compounds
- Bonding in metals

### 4. Periodic table

- Reactivity of some groups (alkali metals, halogens, noble gases)
- Short introduction to transition metals

### 5. Introduction to chemical formulae's, names of chemical substances, and equations.

- Standard names and formulae's used for covalent substances, ionic substances, substances with transition metals
- Starting the chemical equation

**The students should get used to do practical work and do written reports on computer.**