

**Yan Oi Tong Tin Ka Ping Secondary School**  
**F.3 Chemistry Teaching Schedule**

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Topic	Number of lessons	Cycle(s)
<u>Fundamentals of Chemistry: Matter [Unit 1]</u> <ul style="list-style-type: none"> <li>◆ Classification of matter: Elements, Compounds and Mixtures</li> <li>◆ Physical and chemical changes</li> <li>◆ Ocean and separation methods</li> <li>◆ Crude oil and fractional distillation</li> <li>Plastic (PE, PVC and Nylon)</li> </ul>	12	1 – 6
<u>Microscopic World [Unit 2]</u> <ul style="list-style-type: none"> <li>◆ Atomic structure               <ul style="list-style-type: none"> <li>● Structure of atoms</li> <li>● Isotopes and relative atomic mass</li> <li>● Electronic configuration</li> </ul> </li> <li>◆ Periodic Table               <ul style="list-style-type: none"> <li>● Introduction</li> <li>● Patterns in the Periodic Table</li> <li>● Alkali metals, Halogens and Noble gases</li> </ul> </li> </ul>	12	6-12
Revision and First Examination		
<u>Bonding in compounds: Ionic and Covalent Bonding [Unit 3]</u> <ul style="list-style-type: none"> <li>◆ Formation of ions</li> <li>◆ Ionic bonding</li> <li>◆ Formula of ionic compounds</li> <li>◆ Colour of ions in aqueous solutions</li> <li>◆ Electrical conductivity of ionic compounds</li> <li>◆ Formation of molecules</li> <li>◆ Covalent bonding</li> </ul>	10	12-18
<u>Metals [Unit 4]</u> <ul style="list-style-type: none"> <li>◆ Chemical equations</li> <li>◆ Reactivity of metals</li> <li>◆ Stability of metal compounds</li> <li>◆ Methods of metal extraction</li> <li>◆ Daily uses of some common metals</li> <li>◆ Alloys and properties (strength and melting point)</li> </ul>	12	18-22
<u>Limestones, Chalk and Marble [Unit 5]</u> <ul style="list-style-type: none"> <li>◆ Flame test</li> <li>◆ Test for carbonate ions</li> <li>◆ The lime cycle</li> </ul>	4	23-24
Revision and Yearly Examination		