



## Year 8 Term 2 Chemistry

### Compounds and Mixtures

Weeks 1	Topic	In this unit pupils will learn...
<ul style="list-style-type: none"> <li>▪ 8F.1 Element or Compound (pg# 64 - 65)</li>   <li>▪ 8F.2 Elements to compounds (pg#66 - 67)</li> </ul>	<ul style="list-style-type: none"> <li>• to distinguish between elements and compounds and how they are represented by symbols and formulae.</li> <li>• to compare and contrast the properties of elements and compounds.</li> <li>• to predict the ratio of elements in a compound and state that the ratio of elements in a compound is constant.</li>   <li>• to know how compounds differ from the component elements from which the compounds are made.</li> <li>• to recognise chemical change as a process in which atoms join together in new ways.</li> <li>• to describe chemical reactions using chemical equations.</li> </ul>	

**Assessment:** Quiz# 1      HW# 1      Lab#1

Week 2	Topic	In this unit pupils will learn...
<ul style="list-style-type: none"> <li>▪ 8F.3 Compounds and chemical reactions. (pg#68 - 69)</li>   <li>▪ Chemical equations</li> </ul>	<ul style="list-style-type: none"> <li>• how compounds react together to form new compounds.</li> <li>• to observe and predict changes during chemical reactions.</li> <li>• to predict the new compounds that form in a chemical reaction.</li> <li>• develop skill to handle chemicals and apparatus in the chemistry lab.</li> <li>• to prepare a concept organiser using the key terms; atoms, elements, molecules, compounds, mixtures etc.</li> <li>• to interpret and draw conclusions from observations and graphs</li> </ul>	

**Assessment:** HW#2      Lab#2

Weeks 3	Topic	In this unit pupils will learn...

<ul style="list-style-type: none"> <li>▪ 8B.4 Mixtures (pg#70 – 71)</li> </ul>	<ul style="list-style-type: none"> <li>• to distinguish between compounds and mixtures.</li> <li>• to list the composition of different items available and know that they are mixtures.</li> <li>• to compare a compound (pure substance) with a mixture (impure substance)</li> <li>• to understand that the composition of a mixture varies depending on the time and place and also discuss other possible factors.</li> </ul>
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**Assessment:** Quiz#2 HW#3 Lab#3

Week 4-5	Topic	In this unit pupils will learn...
<ul style="list-style-type: none"> <li>▪ 8F.5 Mixtures and changing state (pg#72 – 73)</li> <li>▪ Separating mixtures</li> </ul>		<ul style="list-style-type: none"> <li>• to describe the changing state of water; melting, boiling, condensing and freezing.</li> <li>• to draw and interpret heating curve and cooling curve for water.</li> <li>• to describe the changes in particle arrangement at each change of state.</li> <li>• to investigate and identify pure water from a mixture of salt and water by checking their melting points</li> <li>• to know that impurities alter melting and boiling points.</li> <li>• to describe and set up experiments to separate the components from a mixture.</li> <li>• to demonstrate separation methods such as filtration, distillation and paper chromatography.</li> </ul>

**Assessment:** Unit test#1 HW#4 and 5 Project#1

### 8G Rocks and Weathering

Week 6-7	Topic	In this unit pupils will learn...
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<ul style="list-style-type: none"> <li>▪ 8G.1 Rocks (pg# 76 – 77)</li> <li>▪ Layers of the Earth, Minerals and Types of rock.</li> </ul>	<ul style="list-style-type: none"> <li>• the different layers of the Earth and state the features of each layer.</li> <li>• to describe minerals with examples.</li> <li>• to investigate different types of rock and collect samples.</li> </ul>
<ul style="list-style-type: none"> <li>▪ 8G.2 Weathering (pg# 78 – 79)</li> </ul>	<ul style="list-style-type: none"> <li>• to describe weathering, state and explain different types of weathering.</li> <li>• to investigate reasons for chemical weathering by doing an experiment on lime stone with acids.</li> <li>• how weathering is important to plants and animals.</li> </ul>

**Assessment:** Quiz#3 HW#6 and 7 lab#4

Week 7 - 8	Topic	In this unit pupils will learn...
<ul style="list-style-type: none"> <li>▪ 8G.3 Temperature changes and rocks. (pg# 80 – 81)</li> </ul>		<ul style="list-style-type: none"> <li>• to describe the effect of temperature variation on weathering.</li> <li>• to discuss freeze-thaw weathering and exfoliation.</li> <li>• to investigate exfoliation weathering using a piece of granite.</li> </ul>
<ul style="list-style-type: none"> <li>▪ 8G.4 Transportation (pg# 82 – 83)</li> <li>▪ Erosion</li> <li>▪ Sedimentation</li> </ul>		<ul style="list-style-type: none"> <li>• to explain the process of transportation of weathered rocks.</li> <li>• how transportation occurs.</li> <li>• to draw diagrams to show weathering, erosion, transportation and sedimentation.</li> </ul>

**Assessment:** HW# 8 Quiz# 4 Lab#5 Project#2

Week 9	Topic	In this unit pupils will learn...
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<ul style="list-style-type: none"> <li>▪ 8G.5 Sedimentary rocks. (pg#84 – 85)</li> </ul>	<ul style="list-style-type: none"> <li>• how sedimentation occurs.</li> <li>• to describe stages of sedimentation; accumulation and consolidation.</li> <li>• to investigate formation of sediments by evaporation, eg. Gypsum</li> <li>• to describe and explain how fossils are formed.</li> <li>• to use scientific knowledge and understanding to explain observations.</li> <li>• to interpret data collected on fossils.</li> </ul>
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<b>Assessment:</b> HW# 9 and 10            Unit test# 2		
Week 10	<b>Revision</b>	
Week 11	<b>Second Term Examination</b>	50%