<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Main Ideas and reference to Heinemann Chapters</th>
<th>Duration (weeks)</th>
<th>Assessment Item</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>4. The air we breathe</td>
<td>The concepts of the mole and gas laws are introduced through the context of gases in our atmosphere. Persuasive writing genre is revisited as students write a response to a current issue as a magazine article. Drafts are encouraged throughout the writing process. Chapters 3 and 5 in the Heinemann textbook are useful references. Balanced equations and application of the molar concept when expressing concentration are further explored through the contexts of a number of reactions used in industry. There is a supervised assessment (exam) to test the knowledge and understanding, and application of these concepts. Chapters 3, 4 and 5 in the Heinemann textbook are useful references. Overview winemaking p 145-151, acids and bases – reactions and definitions, concentration and strength, pH scale, salts, buffers, indicators, volumetric analysis p 466 and titration techniques. Shannonvale Winery excursion Week 6 of Term 3 (15/8/17) Chap 8, 13, (9)</td>
<td>5 weeks (not all lessons will be used for the assignment)</td>
<td>Assignment Extended Response Task, ERT (assignment)</td>
<td>Week 6 Wednesday 16th August</td>
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<tr>
<td>5. Consumer Chemistry</td>
<td></td>
<td>7 weeks</td>
<td>Exam 70 mins Supervised Assessment Task (exam)</td>
<td>Week 10 Wednesday 13th September</td>
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<td>6. Wine Analysis</td>
<td></td>
<td>8 weeks</td>
<td>Practical Assignment Extended Experimental Investigation (EEI) – factors affecting wine quality</td>
<td>Week 7 Wednesday 15th November</td>
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**Literacy Components**
- Speaking and Listening
- Reading & Viewing text book, articles, Clickview
- Writing & Designing reports, persuasive article

**Numeracy Components**
- Number
- Algebra
- Measurement using laboratory equipment
- Space
- Chance & Data interpreting graphical displays

**ICT/Technology Components**
- Select and use ICTs in the processes of inquiry and research
- Select and use ICTs to create a range of responses to suit the purpose and audience
- Select and use ICTs to collaborate and enhance communication for an identified purpose and audience
- Develop and apply ethical, safe and responsible practices when working with ICTs
- Use a range of advanced ICT functions and applications