

# CHEMISTRY Curriculum Overview

2009-2010



Arnold

A proud past and a bright future

A member of United Church Schools Trust

| YEAR              | TOPICS  |
|-------------------|---|
| 9                 | <ol style="list-style-type: none"><li>1. Reactions of metals and metal compounds</li><li>2. Patterns of reactivity</li><li>3. Atomic structure and Bonding</li><li>4. How Science Works (preparation for GCSE coursework)</li><li>5. Chemicals from rocks - limestone</li><li>6. Chemicals from rocks - metals</li></ol>  |
| GCSE Module<br>C1 | <ol style="list-style-type: none"><li>1. How do rocks provide building materials?</li><li>2. How do rocks provide metals and how are metals used?</li><li>3. How do we get fuels from crude oil?</li><li>4. How are polymers and ethanol made from oil?</li><li>5. How can plant oils be used?</li><li>6. What are the changes in the Earth and its atmosphere?</li></ol> |

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| <p style="text-align: center;"><b>GCSE Module<br/>C2</b></p>   | <ol style="list-style-type: none"> <li>1. How do sub-atomic particles help us to understand the structure of substances?</li> <li>2. How do structures influence the properties and uses of substances?</li> <li>3. How much can we make and how much do we need to use?</li> <li>4. How can we control the rates of chemical reactions?</li> <li>5. Do chemical reactions always release energy?</li> <li>6. How can we use ions in solutions?</li> </ol> |
| <p style="text-align: center;"><b>GCSE Module<br/>C3</b></p> <p style="text-align: center;">(not taken by Science /<br/>Additional Science<br/>students)</p> | <ol style="list-style-type: none"> <li>1. How was the periodic table developed and how can it help us understand the reactions of elements?</li> <li>2. What are strong and weak acids and alkalis? How can we find the amounts of acids and alkalis in solutions?</li> <li>3. What is in the water we drink?</li> <li>4. How much energy is involved in chemical reactions?</li> <li>5. How do we identify and analyse substances?</li> </ol>             |

**PLEASE NOTE:** This overview sets out a general summary of the basic curriculum taught. It is not an exhaustive list of what may be taught and subject teachers may not necessarily follow the order stated above. Further details may be obtained from the Head of Department, if required.

\*For the triple scientists, C2 is started in Yr10 and is examined in January of Yr11

\*For the Additional scientists, C2 is started in Yr11 and is examined in June of Yr11