

# Core science (Science A)

This is the first of the GCSE's that your son/daughter can get in science. All students take this course. It is made up of 6 main modules (two chemistry, two biology and two physics) as outlined below. The students will take two exams at the end of year 10 (part 1 and part 2). The marks from both papers will be added together to give an overall "Core Science grade".

## Part 1 (Unit 5)

### Biology

- ☐ (B1.1) Keeping healthy
- ☐ (B1.2) Nerves and hormones
- ☐ (B1.3) Use and abuse of drugs

### Chemistry

- ☐ (C1.1) Fundamental ideas of Chemistry
- ☐ (C1.2) Limestone and building materials
- ☐ (C1.3) Metals and their uses
- ☐ (C1.4) Crude oil and fuels

### Physics

- ☐ (P1.1) Energy transfer
- ☐ (P1.2) Energy and efficiency
- ☐ (P1.3) The usefulness of electrical appliances

- 90 marks
- 90 minutes
- Worth 35% of overall grade

## Part 2 (Unit 6)

### Biology

- ☐ (B1.5) Energy and biomass in food chains
- ☐ (B1.6) Waster materials from plants and animals
- ☐ (B1.7) Genetic variation and its control
- ☐ (B1.8) Evolution

### Chemistry

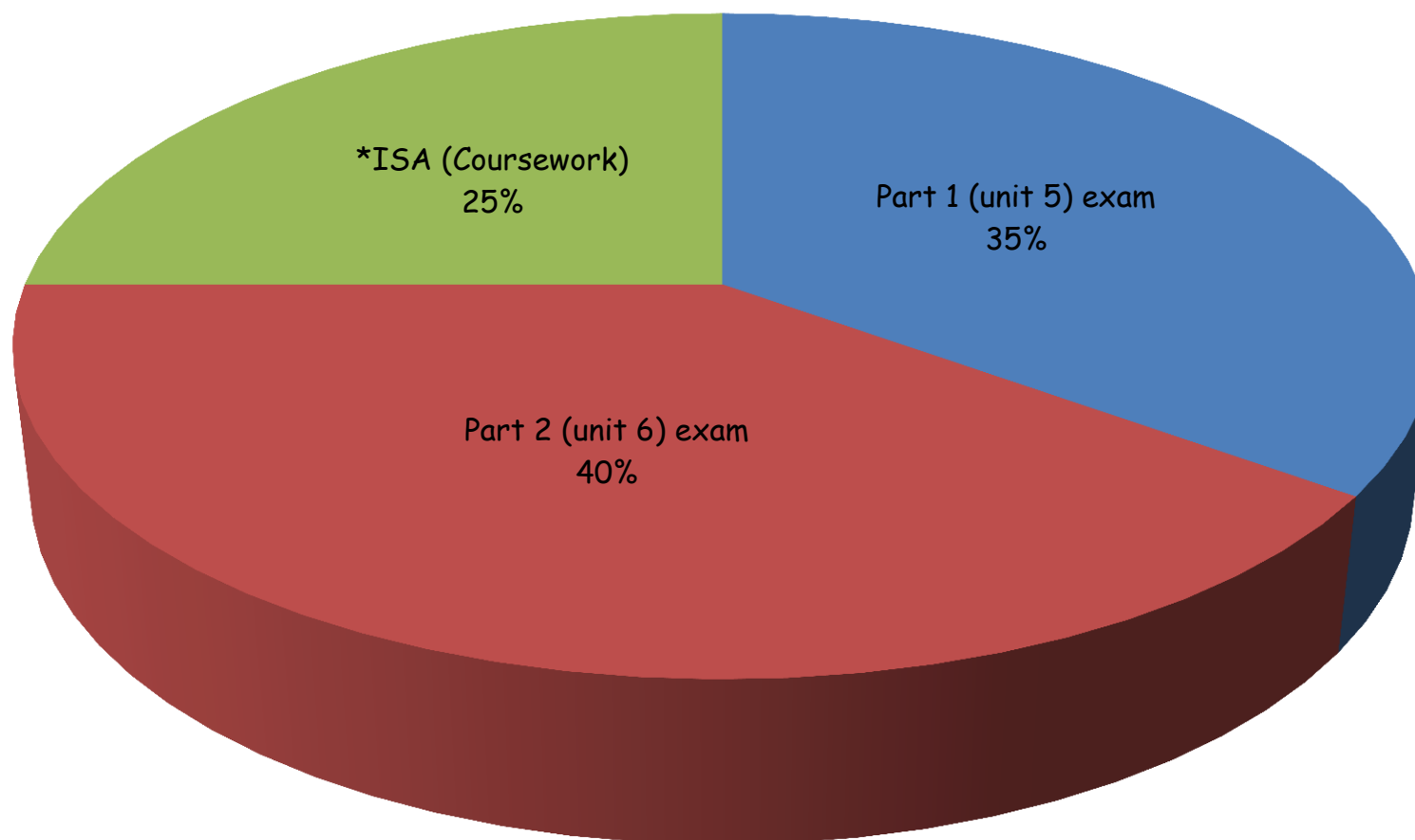
- ☐ (C1.5) Other useful substances from crude oil
- ☐ (C1.6) Plant oils and their uses
- ☐ (C1.7) Changes in the Earth and its atmosphere

### Physics

- ☐ (P1.4) Energy transfer
- ☐ (P1.5) The use of waves

- 90 marks
- 90 minutes
- Worth 40% of overall grade

### Contributions of each section to the overall Core Science GCSE grade



\* For information about the Independent Skills Assessment (ISA) please refer to the ***ISA explained*** document in the GCSE folder

Lots of Bitesize audio clips for your MP3 players can be downloaded here: <http://www.bbc.co.uk/schools/gcsebitesize/audio/science/>

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<ol style="list-style-type: none"> <li>For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>. <b>username</b> = Wadebridge <b>password</b> = echalk</li> <li>On the left hand menu click on "science".</li> <li>Use the info in the echalk games boxes, to navigate to the correct games</li> </ol>	<p>KERBOODLE</p> <p><b>user name</b> = your ws number</p> <p><b>Password</b> = password (unless you have changed it)</p> <p><b>Organisation code</b> = 1481</p>
<b>B1.1</b>	Keeping healthy	Pages 12-15	<a href="#">bitesize keeping healthy diet and exercise activity</a> <a href="#">diet and exercise quiz</a> <a href="#">bitesize defence against infection</a> <a href="#">defence against infection activity</a> <a href="#">defence against infection quiz</a> <a href="#">skool balanced diet</a> <a href="#">skool defence mechanisms</a> <a href="#">skool vaccinations</a> <a href="#">skool malnutrition</a>	<a href="#">balanced diets</a> <a href="#">defence against disease</a> <a href="#">vaccination</a> <a href="#">semmelweis</a> <a href="#">antibiotic resistance</a> <a href="#">culturing</a> <a href="#">microorganisms</a>  bitesize vids <a href="#">energy in food</a> <a href="#">microorganisms</a> <a href="#">microscopy</a>	<p>No e-chalk animations for this section</p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see "<b>my courses</b>"</li> <li>Click on "Science A GCSE for AQA"</li> <li>In the library section click on "<b>Biology 1</b>"</li> <li>Click on "<b>Keeping Healthy</b>"</li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see "<b>my courses</b>"</li> <li>Click on "<b>Science A GCSE Kerboodle Book for AQA</b>"</li> <li>Read pages 24 - 45</li> </ol>

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<b>B1.2</b>	Nerves and hormones	Pages 16 -20	<a href="#">bitesize nervous system</a> <a href="#">nervous system activity</a> <a href="#">nervous system quiz</a> <a href="#">bitesize control in the human body</a> <a href="#">control in the body activity</a> <a href="#">control in the body quiz</a> <a href="#">bitesize control in plants</a> <a href="#">control in plants quiz</a> <a href="#">skool nerves</a>	<a href="#">the nervous system and reflexes</a> <a href="#">homeostasis</a> <a href="#">menstrual cycle</a> <a href="#">controlling fertility</a> <a href="#">auxin in plants</a>  bitesize vids <a href="#">germination</a>	<p><b><u>Go to "Biology"</u></b></p> <p>The female reproductive system  The menstrual cycle  The menstrual cycle: word gap exercise  The endocrine system: a visual database  The endocrine system: cloud click game  The endocrine system labelling exercise  The ultimate reaction test  Homeostasis bounce quiz</p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on "Science A GCSE for AQA"</li> <li>In the library section click on <b>"Biology 1"</b></li> <li>Click on <b>"Coordination and control"</b></li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>Read pages 46-61</li> </ol>

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<b>B1.3</b>	The use and abuse of drugs	Pages 21-23	<a href="#">bitesize drugs</a> <a href="#">drugs quiz</a> <a href="#">talk to frank</a>	<a href="#">developing new drugs</a> <a href="#">recreational drugs</a>	<p>No e-chalk animations for this section</p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on <b>"Biology 1"</b></li> <li>4. Click on <b>"medicine and drugs"</b></li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>3. Read pages 62-74</li> </ol>

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C1.1	The fundamental ideas in Chemistry	Pages 34-38	<a href="#">bitesize atoms</a> <a href="#">atoms activity</a> <a href="#">atoms quiz</a> <a href="#">bitesize periodic table</a> <a href="#">periodic table activity</a> <a href="#">periodic table quiz</a> <a href="#">bitesize chemical reactions</a> <a href="#">chemical reactions quiz</a> <a href="#">skool structure and bonding</a> <a href="#">skool elements of the periodic table</a> <a href="#">skool atoms and the periodic table</a> <a href="#">skool noble gases</a> <a href="#">skool group 1 metals</a>	<a href="#">labelling and drawing atoms</a>  <a href="#">ionic bonding</a>  <a href="#">covalent bonding</a>  <a href="#">balancing equations</a>  <a href="#">periodic table key features</a>	<p><b><u>Go to "chemistry"</u></b></p> <ul style="list-style-type: none"> <li>Venn diagram states of matter</li> <li>States of matter</li> <li>Build your own atom</li> <li>Atomic structure: bounce quiz</li> <li>Electron configuration pairs</li> <li>Covalent and ionic bonding</li> <li>Elements, compounds and mixtures</li> <li>Identifying elements, compounds and mixtures</li> <li>Electronic structure: visual database</li> <li>The periodic table game</li> <li>Periodic table</li> <li>Metals and non-metals balloon pop game</li> <li>Electron configuration pairs</li> </ul>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on "Science A GCSE for AQA"</li> <li>In the library section click on <b>"Chemistry 1"</b></li> <li>Click on <b>"Fundamental ideas"</b></li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>Read pages 134-145</li> </ol>

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C1.2	Limestone and building materials	Page 39	<a href="#">skool metals ores and rocks</a> <a href="#">bitesize calcium carbonate</a> <a href="#">limestone activity</a> <a href="#">limestone quiz</a>	<a href="#">limestone</a>	<p><b><u>Go to "chemistry"</u></b></p> <ul style="list-style-type: none"> <li>🌀 Moonlander: reactivity series</li> <li>🌀 Interactive reactivity series</li> </ul>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE for AQA"</b></li> <li>In the library section click on <b>"Chemistry 1"</b></li> <li>Click on <b>"Rocks and building materials"</b></li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>Read pages 146-157</li> </ol>

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C1.3	Metals and their uses	Pages 40-42	<a href="#">bitesize metals</a> <a href="#">metals activity</a> <a href="#">bitesize quiz</a>	<a href="#">extraction of metal</a> <a href="#">uses of metals and bioleaching</a> <a href="#">iron steel and alloys</a> <a href="#">transition metals</a>	<p><b><u>Go to "chemistry"</u></b></p> <p>⊗ The blast furnace</p> <p>⊗</p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE for AQA"</b></li> <li>In the library section click on <b>"Chemistry 1"</b></li> <li>Click on <b>"Metals and their uses"</b></li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>Read pages 158-171</li> </ol>



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C1.4	Crude oil and fuels	Pages 43-44	<p><a href="#">bitesize separating crude oil</a>  <a href="#">separating crude oil quiz</a>  <a href="#">bitesize hydrocarbons as fuels</a>  <a href="#">crude oil activity</a>  <a href="#">crude oil quiz</a>  <a href="#">skool crude oil</a></p> <p>(you do not need to know about <b>cracking</b>, <b>plastics</b> or <b>alkenes</b> at this point)</p>	<p><a href="#">crude oil</a>  <a href="#">alkanes</a>  <a href="#">burning hydrocarbons</a>  <a href="#">biofuels</a></p>	<p><b><u>Go to "chemistry"</u></b></p> <ul style="list-style-type: none"> <li>Alkanes and Alkenes. (only look at the molecules ending in 'ane' though.</li> <li>Fractional distillation column</li> <li>Crude oil and fractional distillation: bounce quiz</li> </ul>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on "Science A GCSE for AQA"</li> <li>In the library section click on <b>"Chemistry 1"</b></li> <li>Click on <b>"Crude oil and fuels"</b></li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>Read pages 172-183</li> </ol>

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P1.1	Energy transfer	Pages 56-59	<a href="#">bitesize energy transfer by heating</a> <a href="#">energy transfer by heating activity</a> <a href="#">energy transfer by heating quiz</a> <a href="#">bitesize buildings</a> <a href="#">buildings quiz</a>	<a href="#">heat transfer kinetic theory</a> <a href="#">conduction</a> <a href="#">convection</a> <a href="#">condensation and evaporation</a>	<p><b><u>Go to "Physics"</u></b></p> <ul style="list-style-type: none"> <li>⊗ States of matter</li> <li>⊗ Venn diagram: states of matter</li> <li>⊗ Conduction of heat in solids</li> <li>⊗ Relative conductivities of metal rods</li> <li>⊗ Convection currents</li> </ul>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on <b>"Physics 1"</b></li> <li>4. Click on <b>"energy transfer by heating"</b></li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>3. Read pages 222-242</li> </ol>

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P1.2	Energy and Efficiency	Page 60	<a href="#">bitesize efficiency efficiency activity efficiency quiz bitesize</a>	<a href="#">heat loss u-values specific heat capacity efficiency sankey diagrams payback times</a>	<p><b><u>Go to "Physics"</u></b></p> <ul style="list-style-type: none"> <li>⊗ Energy conversions and efficiency</li> <li>⊗ Energy transfer: bounce quiz</li> </ul>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on <b>"Physics 1"</b></li> <li>4. Click on <b>"Electrical energy"</b></li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>3. Read pages 252-257</li> </ol>

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P1.3	The usefulness of electrical appliances	Page 61	electricity cost	<a href="#">cost of electricity</a>	<p><u>Go to "Physics"</u></p> <p>⊗ Electricity bills</p>	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on <b>"Physics 1"</b></li> <li>4. Click on <b>"Electrical energy"</b></li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>3. Read pages 258-262</li> </ol>

### Practise Exam Questions

As this is a new specification, there are very few past papers that can be used for practice. You can however, download the June 2012 series by clicking on the links below.

Two tiers of entry are available for this exam. Your child's teacher will use internal assessments and their target grade to assess which tier is appropriate for them.

June 2012 Foundation Question paper <http://filestore.aqa.org.uk/subjects/AQA-SCA1FP-QP-JUN12.PDF>

June 2012 Foundation mark scheme <http://filestore.aqa.org.uk/subjects/AQA-SCA1FP-W-MS-JUN12.PDF>

June 2012 Higher tier question paper: <http://filestore.aqa.org.uk/subjects/AQA-SCA1HP-QP-JUN12.PDF>

June 2012 Higher tier mark scheme: <http://filestore.aqa.org.uk/subjects/AQA-SCA1HP-W-MS-JUN12.PDF>

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<b>B1.4</b>	Interdependence and adaptation	23-25	<a href="#">bitesize adaptations adaptations activity adaptations quiz</a> <a href="#">bitesize environmental change environmental change quiz</a> <a href="#">skooool populations</a>	<a href="#">competition and adaptation factors affecting distribution</a>	<p><b>There are no relevant e-chalk animations for this section</b></p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see "<b>my courses</b>"</li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on "<b>Biology 1</b>"</li> <li>4. Click on "<b>Adaptation for survival</b>"</li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see "<b>my courses</b>"</li> <li>2. Click on "<b>Science A GCSE Kerboodle Book for AQA</b>"</li> <li>3. Read pages 76-93</li> </ol>

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<p>13. For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>.  <b>username</b> = Wadebridge  <b>password</b> = echalk  14. On the left hand menu click on "science".  15. Use the info in the echalk games boxes, to navigate to the correct games</p>	<p>KERBOODLE  <b>user name</b> = your ws number  <b>Password</b> = password (unless you have changed it)  <b>Organisation code</b> = 1481</p>
<b>B1.5 and B1.6</b>	Energy and biomass in food chains	25 - 26	<a href="#">bitesize orgainisms and thier environment</a> <a href="#">skooool ecology</a>	<a href="#">energy in biomass</a> <a href="#">the process of decay</a> <a href="#">the carbon cycle</a>	<p><b><u>Go to "Biology"</u></b>  The carbon cycle  Food chains  Food webs  Feeding relationships: key words</p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on <b>"Biology 1"</b></li> <li>4. Click on <b>"energy in biomass"</b></li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>3. Read pages 94-105</li> </ol>
	AND  Waste materials from plants and animals					

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<p>16. For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>.</p> <p><b>username</b> = Wadebridge</p> <p><b>password</b> = echalk</p> <p>17. On the left hand menu click on "science".</p> <p>18. Use the info in the echalk games boxes, to navigate to the correct games</p>	<p>KERBOODLE</p> <p><b>user name</b> = your ws number</p> <p><b>Password</b> = password (unless you have changed it)</p> <p><b>Organisation code</b> = 1481</p>
<b>B1.7</b>	Genetic variation and its control	27-29	<a href="#">bitesize variation variation quiz</a> <a href="#">bitesize reproduction reproduction and cloning activity reproduction quiz</a>	<a href="#">variation reproduction cloning genetic modification</a>	<p><u><b>Go to "Biology"</b></u></p> <p>Heredity</p> <p>Venn diagram: nature or nurture</p> <p>Chromosomes genes and DNA</p>	<p><u><b>ACTIVITIES</b></u></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on <b>"Biology 1"</b></li> <li>4. Click on <b>"Variation, reproduction and new technology"</b></li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><u><b>E-TEXT BOOK</b></u></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>3. Read pages 106-121</li> </ol>



Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<p>19. For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>.</p> <p><b>username</b> = Wadebridge</p> <p><b>password</b> = echalk</p> <p>20. On the left hand menu click on "science".</p> <p>21. Use the info in the echalk games boxes, to navigate to the correct games</p>	<p>KERBOODLE</p> <p><b>user name</b> = your ws number</p> <p><b>Password</b> = password (unless you have changed it)</p> <p><b>Organisation code</b> = 1481</p>
B1.8	evolution	30-31	<a href="#">bitesize evolution</a> <a href="#">evolution quiz</a>	<a href="#">Darwins theory of evolution</a> <a href="#">Darwin V's Lamarck</a>	<p><b><u>Go to "Biology"</u></b></p> <p>Peppered moth natural selection simulation</p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on <b>"Biology 1"</b></li> <li>4. Click on <b>"Evolution"</b></li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>3. Read pages 122-133</li> </ol>

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<p>21. For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>.</p> <p><b>username</b> = Wadebridge</p> <p><b>password</b> = echalk</p> <p>22. On the left hand menu click on "science".</p> <p>23. Use the info in the echalk games boxes, to navigate to the correct games</p>	<p>KERBOODLE</p> <p><b>user name</b> = your ws number</p> <p><b>Password</b> = password (unless you have changed it)</p> <p><b>Organisation code</b> = 1481</p>
C1.5	Other useful substances from crude oil	45-47	<a href="#">bitesize alkenes</a> <a href="#">alkenes activity</a> <a href="#">alkenes quiz</a> <a href="#">bitesize polymers and ethanol</a> <a href="#">polymers from oil activity</a> <a href="#">polymers from oil quiz</a> <a href="#">skool products from oil</a>	<a href="#">polymers</a> <a href="#">ethanol</a>	<p><u><b>Go to "Chemistry"</b></u></p> <p>Alkenes and alkanes</p> <p>Crude oil and fractional distillation: Bounce quiz</p>	<p><u><b>ACTIVITIES</b></u></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on "Science A GCSE for AQA"</li> <li>In the library section click on <b>"Chemistry 1"</b></li> <li>Click on <b>"products from oil"</b></li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><u><b>E-TEXT BOOK</b></u></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>Read pages 185-195</li> </ol>

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<p>24.For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>.</p> <p><b>username</b> = Wadebridge</p> <p><b>password</b> = echalk</p> <p>25.On the left hand menu click on "science".</p> <p>26.Use the info in the echalk games boxes, to navigate to the correct games</p>	<p>KERBOODLE</p> <p><b>user name</b> = your ws number</p> <p><b>Password</b> = password (unless you have changed it)</p> <p><b>Organisation code</b> = 1481</p>
C1.6	Plant oils and their uses	48-49	<a href="#">bitesize plant oils</a> <a href="#">plant oils activity</a> <a href="#">plant oils quiz</a>	<a href="#">emulsions</a> <a href="#">fats</a> <a href="#">plant oils</a>	<p><b>There are no relevant e-chalk animations for this section</b></p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see "<b>my courses</b>"</li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on "<b>Chemistry 1</b>"</li> <li>4. Click on "<b>plant oils</b>"</li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see "<b>my courses</b>"</li> <li>2. Click on "<b>Science A GCSE Kerboodle Book for AQA</b>"</li> <li>3. Read pages 196-205</li> </ol>

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<ol style="list-style-type: none"> <li>For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>. <b>username</b> = Wadebridge <b>password</b> = echalk</li> <li>On the left hand menu click on "science".</li> <li>Use the info in the echalk games boxes, to navigate to the correct games</li> </ol>	<p>KERBOODLE <b>user name</b> = your ws number <b>Password</b> = password (unless you have changed it) <b>Organisation code</b> = 1481</p>
C1.7	Changes in the Earth and its atmosphere	50-53	<a href="#">bitesize the Earth's crust</a> <a href="#">Earth's crust activity</a> <a href="#">Earth's crust quiz</a> <a href="#">Bitesize Earth's atmosphere</a> <a href="#">Earth's atmosphere activity</a> <a href="#">Earth's atmosphere quiz (Foundation)</a> <a href="#">Earth's atmosphere quiz (Higher)</a>	<a href="#">Earth's core and atmosphere</a> <a href="#">atmospheric change over time</a> <a href="#">miller-Urey experiment</a> <a href="#">fractional distillation of air</a>	<p><b><u>Go to "Geography"</u></b> The structure of the Earth</p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on "Science A GCSE for AQA"</li> <li>In the library section click on <b>"Chemistry 1"</b></li> <li>Click on <b>"our changing planet"</b></li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>Read pages 206-221</li> </ol>

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<p>27.For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>.</p> <p><b>username</b> = Wadebridge</p> <p><b>password</b> = echalk</p> <p>28.On the left hand menu click on "science".</p> <p>Use the info in the echalk games boxes, to navigate to the correct games</p>	<p>KERBOODLE</p> <p><b>user name</b> = your ws number</p> <p><b>Password</b> = password (unless you have changed it)</p> <p><b>Organisation code</b> = 1481</p>
P1.4	Methods we use to generate electricity	62-64	<a href="#">bitesize generating electricity generating electricity activity generating electricity quiz</a>	<a href="#">generating electricity alternative energy sources pumped storage national grid</a>	<p><u><b>Go to "Physics"</b></u></p> <p>The power station</p> <p>The transformer</p>	<p><u><b>ACTIVITIES</b></u></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on "Science A GCSE for AQA"</li> <li>3. In the library section click on <b>"Physics 1"</b></li> <li>4. Click on <b>"generating electricity"</b></li> <li>5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><u><b>E-TEXT BOOK</b></u></p> <ol style="list-style-type: none"> <li>1. On the left hand side of the home page you will see <b>"my courses"</b></li> <li>2. Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>3. Read pages 262-291</li> </ol>

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<p>6. For e-chalk games go to <a href="http://www.echalk.co.uk">www.echalk.co.uk</a>.  <b>username</b> = Wadebridge  <b>password</b> = echalk</p> <p>7. On the left hand menu click on "science".</p> <p>8. Use the info in the echalk games boxes, to navigate to the correct games</p>	<p>KERBOODLE  <b>user name</b> = your ws number  <b>Password</b> = password (unless you have changed it)  <b>Organisation code</b> = 1481</p>
P1.4	The use of waves	65-67	<a href="#">bitesize properties of waves</a> <a href="#">properties of waves activity</a> <a href="#">properties of waves quiz</a> <a href="#">bitesize sound and light</a> <a href="#">EM spectrum activity</a> <a href="#">sound and light quiz</a> <a href="#">bitesize redshift</a> <a href="#">redshift quiz</a> <a href="#">skool waves 1</a> <a href="#">skool waves 2</a> <a href="#">skool big bang theory</a>	<a href="#">types of wave</a> <a href="#">electromagnetic spectrum</a> <a href="#">reflection</a> <a href="#">refraction</a> <a href="#">diffraction</a> <a href="#">amplitude and wavelength</a> <a href="#">red-shift</a>  bitesize vids <a href="#">refraction</a>	<p><b><u>Go to "Physics"</u></b></p> <p>Moonlander: electromagnetic spectrum game</p> <p>The electromagnetic spectrum: bounce quiz</p> <p>Wave laboratory[improved]</p> <p>Virtual ripple tank</p> <p>Doppler shift simulation</p> <p>Reflection in a plane mirror</p> <p>Reflection balloon blast game</p> <p>Refraction</p> <p>Doppler shift of light</p> <p>Red shift (part 2 of 4)</p> <p>The expanding universe</p> <p>The age of the universe</p>	<p><b><u>ACTIVITIES</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on "Science A GCSE for AQA"</li> <li>In the library section click on <b>"Physics 1"</b></li> <li>Click on <b>"waves"</b> and <b>"Electromagnetic waves"</b></li> <li>There are numerous tasks that you can do. Just click on them and follow the on-screen instructions</li> </ol> <p><b><u>E-TEXT BOOK</u></b></p> <ol style="list-style-type: none"> <li>On the left hand side of the home page you will see <b>"my courses"</b></li> <li>Click on <b>"Science A GCSE Kerboodle Book for AQA"</b></li> <li>Read pages 292-305</li> </ol>

### Practise Exam Questions

As this is a new specification, there are very few past papers that can be used for practice. You can however, download the June 2012 series by clicking on the links below.

Two tiers of entry are available for this exam. Your child's teacher will use internal assessments and their target grade to assess which tier is appropriate for them.

June 2012 Foundation Question paper: <http://filestore.aqa.org.uk/subjects/AQA-SCA2FP-QP-JUN12.PDF>

June 2012 Foundation mark scheme: <http://filestore.aqa.org.uk/subjects/AQA-SCA2FP-W-MS-JUN12.PDF>

June 2012 Higher tier question paper: <http://filestore.aqa.org.uk/subjects/AQA-SCA2HP-QP-JUN12.PDF>

June 2012 Higher tier mark scheme: <http://filestore.aqa.org.uk/subjects/AQA-SCA2HP-W-MS-JUN12.PDF>

# Stretch and challenge:

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If you are looking for something extra to do after completing all of the above, please do the following

## Biology:

1. Go to Kerboodle and log in as normal
2. On the left hand side of the home page you will see *"my courses"*
3. Click on **"Science GCSE for AQA"**
4. In the library section click on *"Biology 1"*
5. Click on *"End of unit"* and *"Extension"*
6. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions

## Chemistry:

1. Go to Kerboodle and log in as normal
2. On the left hand side of the home page you will see *"my courses"*
3. Click on **"Science GCSE for AQA"**
4. In the library section click on *"Chemistry 1"*
5. Click on *"End of unit"* and *"Extension"*
6. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions

## Physics:

1. Go to Kerboodle and log in as normal
2. On the left hand side of the home page you will see *"my courses"*
3. Click on **"Science GCSE for AQA"**
4. In the library section click on *"Physics 1"*
5. Click on *"End of unit"* and *"Extension"*
6. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions