

Additional science

This GCSE will be offered to some students after completion of the Core (Science A) GCSE in year 10. MOST students take this course (with the only exemptions being those taking Applied Science GCSE). 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 11 (unit 5 and unit 6). The marks from both papers will be added together to give an overall "Additional Science grade".

Part 1 (Unit 5)

Biology



- (B2.1) Cells and simple cell transport
- (B2.2) Tissues, organs and organ systems
- (B2.3) Photosynthesis
- (B2.4) Organisms and their environment

Chemistry



- (C2.1 and C2.2) The structure of substances
- (C2.3) Atomic structure, analysis and quantitative chemistry

Physics



- (P2.1) Forces and their effects
- (P2.2) The kinetic energy of objects
- (P2.3) Currents in electrical circuits

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

Part 2 (Unit 6)

Biology



- (B2.5) Proteins - Their functions and uses
- (B2.6) Aerobic and anaerobic respiration
- (B2.7) Cell division and inheritance
- (B2.8) Speciation

Chemistry



- (C2.4) Rates of reaction
- (C2.5) The decay of radioactive substances
- (C2.6) Acids, bases and salts
- (C2.7) Electrolysis

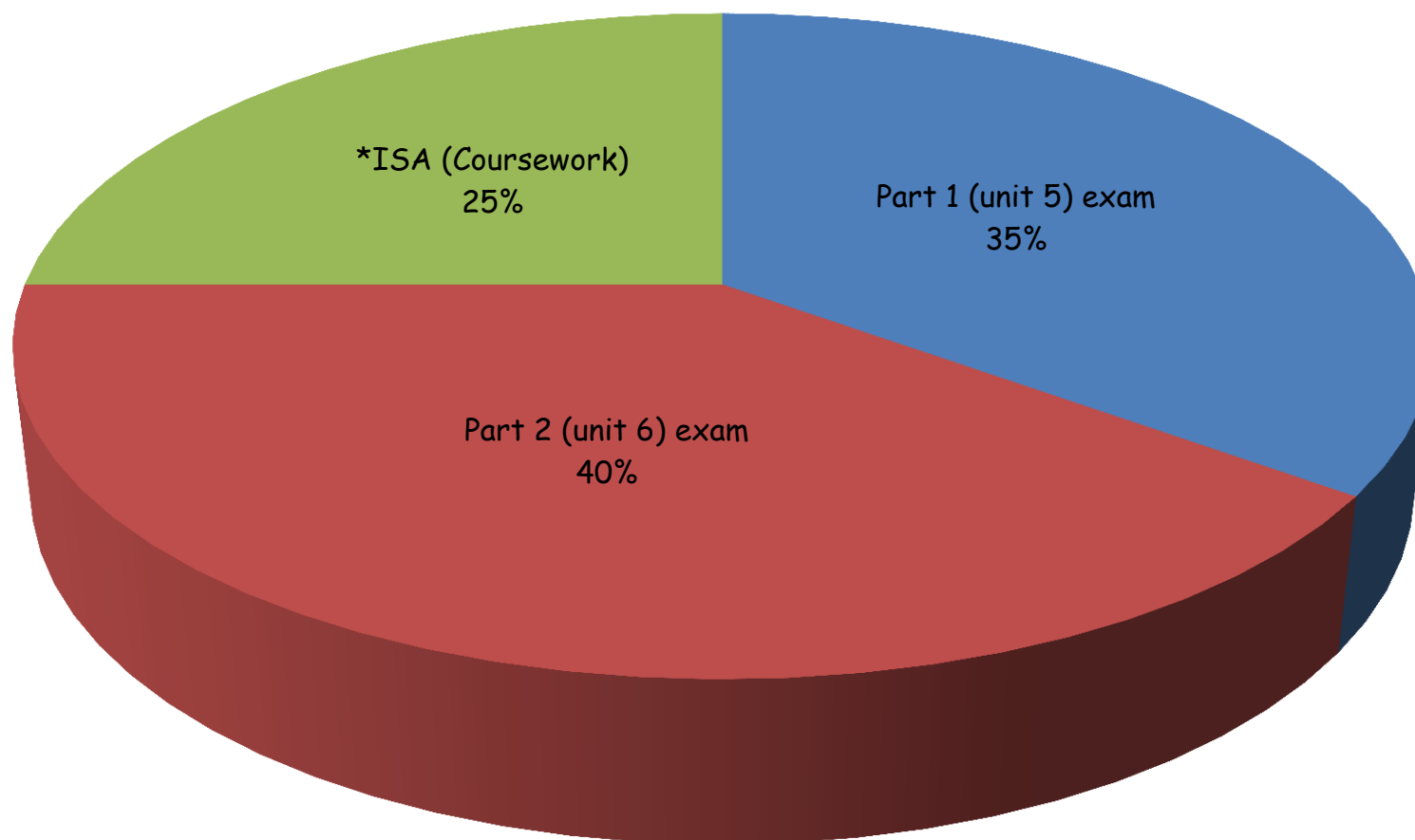
Physics



- (P2.4) Mains electricity
- (P2.5) The decay of radioactive substances
- (P2.6) Nuclear fission and nuclear fusion

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

Contributions of each section to the overall Additional 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 can be downloaded here:

http://www.bbc.co.uk/schools/gcsebitesize/audio/science_additional/

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos		
					<ol style="list-style-type: none"> 1. For e-chalk games go to www.echalk.co.uk. username = Wadebridge password = echalk 2. On the left hand menu click on "science". 3. Use the info in the echalk games boxes, to navigate to the correct games 	<p>KERBOODLE</p> <p>user name = your ws number Password = password (unless you have changed it) Organisation code = 1481</p>
B2.1	Cells and simple cell transport	12-13	bitesize cells and transport diffusion activity cells and transport quiz skool cells	structure and function of cells diffusion	<p>Go to "Biology"</p> <ul style="list-style-type: none"> • Plant and animal cells • Cell image bank • Incredible journey • Diffusion 	<p>ACTIVITIES</p> <ol style="list-style-type: none"> 1. On the left hand side of the home page you will see "my courses" 2. Click on "Science (Additional) GCSE for AQA" 3. In the library section click on "Biology 2" 4. Click on "Cells, tissues and organs" 5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p>E-TEXT BOOK</p> <ol style="list-style-type: none"> 1. On the left hand side of the home page you will see "my courses" 2. Click on "Science (Additional) GCSE Kerboodle Book for AQA" 3. Read pages 2-15

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<ol style="list-style-type: none"> For e-chalk games go to www.echalk.co.uk. username = Wadebridge password = echalk On the left hand menu click on "science". Use the info in the echalk games boxes, to navigate to the correct games 	<p>KERBOODLE user name = your ws number Password = password (unless you have changed it) Organisation code = 1481</p>
B2.2	Tissues, organs and organ systems	14-15	bitesize organs in animals organs in animals quiz bitesize organs in plants organs in plants quiz	cells, tissues and organs (animals) cells tissues and organs (plants) comparing cells	<p><u>Go to "Biology"</u></p> <ul style="list-style-type: none"> The digestive system The digestive system: bounce quiz Peristalsis animation Section through skin: labelling exercise Parts of a flower: labelling exercise Structure of a leaf: labelling exercise 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Biology 2" Click on "Cells, tissues and organs" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 2-15

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B2.3 and B2.4	Photosynthesis And Organisms and their environment	16-18	photosynthesis game skooool plant nutrition bitesize distribution distribution quiz bitesize photosynthesis photosynthesis quiz	distribution of organisms description of photosynthesis limiting factors bitesize vids photosynthesis	<p><u>Go to "Biology"</u></p> <ul style="list-style-type: none"> Photosynthesis and respiration The photosynthesis equation Balance the photosynthesis equation Photosynthesis: bounce quiz 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Biology 2" Click on "Organisms in the environment" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 16-31

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C2.1 and C2.2	The structure of substances	32-37	skool atoms and the periodic table bitesize ionic bonding ionic bonding activity ionic bonding quiz bitesize covalent bonding covalent bonding activity covalent bonding quiz bitesize structure and properties structure and bonding quiz (Foundation) structure and bonding quiz (Higher) skool structure and bonding	ionic bonding isotopes simple covalent metallic bonding covalent properties ionic properties giant covalent fullerenes metals and alloys conduction in metals polymers nonoscience	Go to "Chemistry" <ul style="list-style-type: none"> Build your own atom Atomic structure bounce quiz Electron configuration pairs Covalent and ionic bonding Electronic structure: visual database The elements names and symbols Periodic table tetris game Periodic table game Binary ionic compounds Allotropes of carbon Boron Nitride: 3D molecules 	ACTIVITIES <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Chemistry 2" Click on "Structure and bonding" and "Structure and properties" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions E-TEXT BOOK <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 82-107

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C2.3	Atomic structure, analysis and quantitative chemistry	38-44	bitesize atomic structure quiz bitesize structure different substances quiz bitesize calculations (Foundation) calculations for higher tier calculations (higher)	atoms and isotopes relative atomic mass relative formula mass percentage by mass moles reacting masses Higher only empirical formula percentage yield	<p><u>Go to "Chemistry"</u></p> <ul style="list-style-type: none"> Chemical formulae tetris game Introducing the mole 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see <i>"my courses"</i> Click on "Science (Additional) GCSE for AQA" In the library section click on <i>"Chemistry 2"</i> Click on <i>"How much?"</i> There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see <i>"my courses"</i> Click on <i>"Science (Additional) GCSE Kerboodle Book for AQA"</i> Read pages 108-125

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P2.1	Forces and their effects	56-61	bitesize resultant forces resultant forces activity resultant forces quiz bitesize forces and motion forces and motion activity forces and motion quiz (Foundation) forces and motion quiz (Higher) bitesize forces and braking forces and braking quiz bitesize terminal velocity terminal velocity quiz bitesize elasticity elasticity quiz skooool forces	distance time graphs velocity time graphs acceleration resultant forces terminal velocity bitesize vids falling bodies friction newtons first law newtons third law	<p>Go to "Physics"</p> <ul style="list-style-type: none"> • Space cadet • Case studies in Newton's laws: The horse and cart • Space shepherd • Forces: teaching resource pack • Gravity: a cartoon introduction • Gravity game 	<p>ACTIVITIES</p> <ol style="list-style-type: none"> 1. On the left hand side of the home page you will see "my courses" 2. Click on "Science (Additional) GCSE for AQA" 3. In the library section click on "Physics 2" 4. Click on "Forces" 5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p>E-TEXT BOOK</p> <ol style="list-style-type: none"> 1. On the left hand side of the home page you will see "my courses" 2. Click on "Science (Additional) GCSE Kerboodle Book for AQA" 3. Read pages 176-191

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P2.2	The kinetic energy of objects	62-63	bitesize forces and energy kinetic energy activity kinetic energy quiz bitesize momentum momentum activity momentum quiz	calculating weight work and power acceleration kinetic energy stopping distances hookes law momentum impact forces	<p>Go to "Physics"</p> <ul style="list-style-type: none"> The displacement time graph Motion graphs: displacement velocity and acceleration The equations of motion: solver Describing motion: teaching resource pack Distance time graphs Elastic and inelastic collisions Stopping distances Safe driving: venn diagram 	<p>ACTIVITIES</p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Physics 2" Click on "Motion" and "Work, energy and momentum" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p>E-TEXT BOOK</p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 166-175 and 192-207

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P2.3	Currents in electrical circuits	64-67	bitesize static static activity static quiz bitesize current and voltage parallel and series activity current and voltage quiz bitesize resistance resistance quiz skool series and parallel skool series skool parallel skool circuit diagrams skool current skool measuring current skool measuring voltage	static electrical components current and voltage series and parallel lamps and diodes LDR's, LED's and thermistors	<u>Go to "Physics"</u> Circuit builder Circuit pairs More circuit pairs	<u>ACTIVITIES</u> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Physics 2" Click on "Current electricity" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <u>E-TEXT BOOK</u> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 208-221

Practise (unit 5) 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 Specimen 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.

Specimen Foundation Question paper <http://filestore.aqa.org.uk/subjects/AQA-ADDSCI-W-SQP-5F.PDF>

Specimen Foundation mark scheme <http://filestore.aqa.org.uk/subjects/AQA-ADDSCI-W-SMS-5F.PDF>

Specimen Higher tier question paper: <http://filestore.aqa.org.uk/subjects/AQA-ADDSCI-W-SQP-5H.PDF>

Specimen Higher tier mark scheme: <http://filestore.aqa.org.uk/subjects/AQA-ADDSCI-W-SMS-5H.PDF>

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<ol style="list-style-type: none"> For e-chalk games go to www.echalk.co.uk. username = Wadebridge password = echalk On the left hand menu click on "science". Use the info in the echalk games boxes, to navigate to the correct games 	<p>KERBOODLE</p> <p>user name = your ws number</p> <p>Password = password (unless you have changed it)</p> <p>Organisation code = 1481</p>
B2.5	Proteins - Their functions and uses	19-21	bitesize proteins and enzymes digestion activity proteins and enzymes quiz skooool digestion experiments digestion part 1 digestion part 2 digestion part 3	proteins and enzymes enzymes in digestion enzymes in the home and industry bitesize vids enzymes	<p><u>Go to "Biology"</u></p> <ul style="list-style-type: none"> The digestive system The digestive system: bounce quiz 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Biology 2" Click on "Enzymes" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 32-45

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B2.6	Aerobic and anaerobic respiration	22-23	bitesize respiration respiration activity respiration quiz (Foundation) respiration quiz (Higher) skool aerobic respiration skool anaerobic respiration skool respiration overview	aerobic respiration exercise and respiration anaerobic respiration Bitesize vids aerobic respiration	<p><u>Go to "Biology"</u></p> <ul style="list-style-type: none"> Venn diagram: aerobic and anaerobic respiration aerobic and anaerobic respiration word equations 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Biology 2" Click on "Energy from respiration" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 46-53

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B2.7	Cell division and inheritance	24-28	bitesize DNA and cell division activity cell division quiz (Foundation) cell division quiz (higher) bitesize genes inheritance activity genes quiz	mitosis meiosis stem cells DNA and chromosomes gender DNA structure DNA fingerprinting inheritance patterns polydactyl cystic fibrosis embryo screening genetic diagrams Mendel Bitesize vids mitosis	<p><u>Go to "Biology"</u></p> <ul style="list-style-type: none"> Mitosis The cell life cycle: mitosis Cell division: key words DNA 3D interactive molecule Dominant and recessive alleles: eye colour Heredity Venn diagram: Nature or nurture? DNA fingerprinting 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Biology 2" Click on "Simple inheritance in plants and animals" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 54-69

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B2.8	Speciation	29	bitesize speciation activity speciation quiz (Foundation) speciation quiz (Higher)	the fossil record extinction speciation	<p>There are no relevant e-chalk games for this section</p>	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see <i>"my courses"</i> Click on "Science (Additional) GCSE for AQA" In the library section click on <i>"Biology 2"</i> Click on <i>"Old and new species"</i> There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see <i>"my courses"</i> Click on <i>"Science (Additional) GCSE Kerboodle Book for AQA"</i> Read pages 70-81

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C2.4 and C2.5	Rates of reaction And Exothermic and endothermic reactions	45-47	bitesize rates of reaction rates of reaction activity rates of reaction quiz bitesize chemical reactions chemical reactions quiz skooool rates of reactions	paper chromatography gas chromatography and mass spectroscopy rates of reaction factors affecting rates of reaction catalysts exo and endothermic reactions bitesize vids exo and endothermic reactions rates of reaction	<u>Go to "Chemistry"</u> <ul style="list-style-type: none"> Rates of reactions 	<u>ACTIVITIES</u> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Chemistry 2" Click on "rates and energy" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <u>E-TEXT BOOK</u> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 126-145

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C2.6	Acids, bases and salts	49-51	bitesize acids, bases and salts acids and bases activity acids, bases and salts quiz skooool acids, alkalis and salts	soluble salts insoluble salts acids and bases Bitesize vids acids and alkalis	<p><u>Go to "Chemistry"</u></p> <ul style="list-style-type: none"> Universal indicator Reactions of metals and metal compounds with acids 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Chemistry 2" Click on "Salts and electrolysis" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 146-165

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<ol style="list-style-type: none"> For e-chalk games go to www.echalk.co.uk. username = Wadebridge password = echalk On the left hand menu click on "science". Use the info in the echalk games boxes, to navigate to the correct games 	KERBOODLE user name = your ws number Password = password (unless you have changed it) Organisation code = 1481
C2.7	Electrolysis	52-53	bitesize electrolysis electrolysis activity electrolysis quiz (foundation) electrolysis quiz (Higher)	electrolysis *remember that half equations are for higher tier only electrolysis sodium chloride and aluminium oxide bitesize vids electrolysis	There are no relevant e-chalk games for this section	<u>ACTIVITIES</u> <ol style="list-style-type: none"> On the left hand side of the home page you will see <i>"my courses"</i> Click on "Science (Additional) GCSE for AQA" In the library section click on <i>"Chemistry 2"</i> Click on <i>"Salts and electrolysis"</i> There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <u>E-TEXT BOOK</u> <ol style="list-style-type: none"> On the left hand side of the home page you will see <i>"my courses"</i> Click on <i>"Science (Additional) GCSE Kerboodle Book for AQA"</i> Read pages 146-165

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P2.4	Mains electricity	68-70	skool fuses and circuit breakers bitesize household electricity mains electricity activity mains electricity quiz (Foundation) mains electricity (Higher) bitesize charge, current and power charge, current and power quiz (Foundation) charge, current and power quiz (Higher)	Ac and DC current current and P.d calculations plugs and cables mains safety current and heat electrical power $E = V \times Q$ fuse ratings	<p><u>Go to "physics"</u></p> <ul style="list-style-type: none"> • The three pin plug 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> 1. On the left hand side of the home page you will see "my courses" 2. Click on "Science (Additional) GCSE for AQA" 3. In the library section click on "Physics 2" 4. Click on "Mains electricity" 5. There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> 1. On the left hand side of the home page you will see "my courses" 2. Click on "Science (Additional) GCSE Kerboodle Book for AQA" 3. Read pages 222-235

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P2.5	The decay of radioactive substances	71-74	bitesize atomic structure atomic structure quiz bitesize nuclear radiation radioactive substances nuclear radiation quiz nuclear radiation quiz (Higher)	atoms and isotopes plum pudding model background radiation alpha, beta and gamma dangers and uses nuclear decay half lives bitesize vids radioactive decay	<u>Go to "physics"</u> <ul style="list-style-type: none"> Radioactive decay and half life Penetration of radiation 	<u>ACTIVITIES</u> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE for AQA" In the library section click on "Physics 2" Click on "Radioactivity" There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <u>E-TEXT BOOK</u> <ol style="list-style-type: none"> On the left hand side of the home page you will see "my courses" Click on "Science (Additional) GCSE Kerboodle Book for AQA" Read pages 236-249

Subject	subsection	Revision Guide Page Numbers	Approved online revision (direct links)	videos	<ol style="list-style-type: none"> For e-chalk games go to www.echalk.co.uk. username = Wadebridge password = echalk On the left hand menu click on "science". Use the info in the echalk games boxes, to navigate to the correct games 	<p>KERBOODLE user name = your ws number Password = password (unless you have changed it) Organisation code = 1481</p>
P2.6	Nuclear fission and nuclear fusion	75-77	bitesize fission and fusion fission and fusion activity fission and fusion test skooool planets, galaxies and orbits skooool stars	nuclear fission nuclear fusion life-cycle of stars	<p><u>Go to "physics"</u></p> <ul style="list-style-type: none"> Nuclear fission 	<p><u>ACTIVITIES</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see <i>"my courses"</i> Click on "Science (Additional) GCSE for AQA" In the library section click on <i>"Physics 2"</i> Click on <i>"Energy from the nucleus"</i> There are numerous tasks that you can do. Just click on them and follow the on-screen instructions <p><u>E-TEXT BOOK</u></p> <ol style="list-style-type: none"> On the left hand side of the home page you will see <i>"my courses"</i> Click on <i>"Science (Additional) GCSE Kerboodle Book for AQA"</i> Read pages 250-265

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 Specimen 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.

Specimen Foundation Question paper <http://filestore.aqa.org.uk/subjects/AQA-ADDSCI-W-SQP-6F.PDF>

Specimen Foundation mark scheme <http://filestore.aqa.org.uk/subjects/AQA-ADDSCI-W-SMS-6F.PDF>

Specimen Higher tier question paper: <http://filestore.aqa.org.uk/subjects/AQA-ADDSCI-W-SQP-6H.PDF>

Specimen Higher tier mark scheme: <http://filestore.aqa.org.uk/subjects/AQA-ADDSCI-W-SMS-6H.PDF>

Stretch and challenge:

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 (Additional) GCSE for AQA"
4. In the library section click on *"Biology 2"*
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 (Additional) GCSE for AQA"
4. In the library section click on *"Chemistry 2"*
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 (Additional) GCSE for AQA"
4. In the library section click on *"Physics 2"*
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

