



General Information

Description

There are 2 routes through Science in year 10 and 11.

Option 1

Students are following the AQA called Trilogy.

Every student has 9 lessons per fortnight with an even split between Biology, Chemistry and Physics. There are no coursework elements anymore and the course is examined at the end of year 11.

There are 3 exams for the year 10 element of the course and 3 exams for the year 11 element.

In addition to these exams students have to complete a number of required practicals as they work their way through the course, these will be carried out as part of their Science lessons.

At the end of the course students will come out with 2 GCSE qualifications in Science.

Option 2

Students are following the AQA courses in Biology, Physics and Chemistry.

At the end of year 11 each student will sit 6 exams, 2 for each of the Sciences.

In addition to these exams students have to complete a number of required practicals as they work their way through the course, these will be carried out as part of their Science lessons.

At the end of the course students come out with 3 GCSES.

Topic Breakdown

Breakdown for all the courses: at the end of these pages. Please note, Chemistry and Physics have a core and triple version. Biology has core and triple on the same sheet the red sections are triple only.

Additional Information

Assistance

- Each student has a course map at the front of their exercise books.
- www.kerboodle.com This is an online resource, this has access to all the textbooks for the course which are linked to the course maps, and additionally there are numerous interactive activities to support learning. Login - username - this will be students first initial and lastname, ie jbloggs. Password - same as username. Institution code - so5
- CGP revision guides are available from the school library

Contact Information

Teacher	Email
Mr S Maggs	smaggs@southcharnwood.org



Biology: Year 10				
Lesson Number	Title	Ref.	Required Practical	Topic
1	Admin			
2	Animal and Plant cells	1.1	1: Using a Light Microscope	B1: Cells
3	Animal and plant cells	1.2		
4	Animal and Plant cells	1.2		
5	Eukaryotes and Prokaryotes	1.3		
6	Specialised cells	1.4		
7	Tissues and Organs	3.1		
8	Organ systems: Digestive	3.2		
9	Digestive system	3.2/3.7		
10	Revision			
11	Cell Structure Test		% Estimated Grade:	
12	Food groups	3.3		
13	Food Tests	3.3	4: Food Tests	
14	Food Tests	3.3		
15	Enzyme structure and function	3.4		
16	Enzyme structure and function	3.6		
17	Enzymes and temperature	3.5		
18	Enzymes and pH Key practical 5	3.5	5. pH vs Enzyme Reaction Rate	
19	Enzymes and pH Key practical 5	3.5		
20	Enzymes and pH Key practical 5	3.5		
21	Revision			
22	Organisation and the Digestive		% Estimated Grade:	



	System Test			
23	The Heart	4.3		B4: Organising Animals and Plants
24	Blood Vessels	4.2		
25	Blood components and function	4.1		
26	Heart Disease, mechanical valves and transplant research	4.4		
27	The Lungs	4.5		
28	The Lungs	4.5		
29	Plant organs and tissues	4.6		
30	Xylem, Phloem and Transpiration	4.7		
31	Xylem, Phloem and Transpiration	4.8/4.9		
32	Non communicable diseases and risk factors	7.1/7.3/7.4		
33	Alcohol	7.5		
34	Cancer	7.2		
35	Revision			
36	Non Communicable Diseases Test	%	Estimated Grade:	
37	Chromosomes and Mitosis	2.1		B2: Cell Division
38	Stem Cells	2.2-2.4		
39	<i>Aseptic technique and culturing</i>	5.3		
40	<i>Impacts of chemicals on cultures</i>	5.4	<i>2. The Effect of Antibiotics on Bacterial Growth</i>	
41	<i>Impacts of chemicals on cultures</i>	5.4		



42	Diffusion	1.6		B1: Cell Transport
43	Osmosis 1	1.7		
44	Osmosis 2	1.8	3. How Sugar Concentration Affects Potato Mass	
45	Osmosis 3	1.8		
46	Active transport	1.9		
47	Revision			
48	Cell Transport Test	%	Estimated Grade:	
49	Photosynthesis	8.1		B8: Photosynthesis
50	Pondweed and light intensity	8.2	6. Light Intensity vs Rate of Photosynthesis	
51	Pondweed and light intensity	8.2		
52	Limiting factors and uses of glucose	8.2/8.3		
53	Aerobic Respiration	9.1		B9: Respiration
54	Anaerobic respiration	9.3/9.4		
55	Exercise effects and respiration summary	9.2		
56	Revision			
57	Photosynthesis and Respiration Test	%	Estimated Grade:	

Biology Year 11				
Lesson Number	Title	Ref.	Required Practical	Topic
1	Homeostasis and Hormones	11.1		B11: Hormonal



2	<i>Control of body temperature</i>	12.1		Coordination and B12: Homeostasis in Action
3	<i>Maintaining Water and nitrogen balance</i>	12.2-12.4		
4	<i>Maintaining Water and nitrogen balance 2</i>	12.2-12.4		
5	Control of blood glucose	11.2/11.3		
6	Hormones in reproduction	11.5		
7	Infertility and contraception	11.7/11.8		
8	Negative feedback, adrenaline and thyroxine	11.4		
9	<i>Plant hormones and phototropism</i>	11.9		
10	<i>Plant hormones and phototropism</i>	11.9		
11	<i>Uses of plant hormones and phototropism</i>	11.1	8. Tropisms	
12	<i>Uses of plant hormones and phototropism</i>	11.1		
13	Nervous system	10.2		B10: The Human Nervous System
14	Nervous System: reflexes	10.3		
15	Caffeine investigation	10.3	7. Caffeine's Effect on Reaction Times	
16	Caffeine investigation	10.3		
17	<i>Nervous system: brain</i>	10.4		
18	<i>Nervous system: eye</i>	10.5		
19	<i>Problems with the eye</i>	10.6		
20	The Human Nervous System Test	% Estimated Grade:		
21	DNA and sex chromosomes	13.4		
22	<i>DNA Structure</i>	13.5/13.6		



23	Sexual and Asexual Reproduction	13.1			
24	<i>Advantages and disadvantages of sex/asex</i>	13.3			
25	Meiosis	13.2			
26	Inheritance and sex determination	13.7/13.8			
27	Inherited disorders	13.9/13.10			
28	Variation	14.1		B14: Variation and Evolution and B15: Genetics and Evolution	
29	The Theory of Evolution: natural selection	14.2			
30	<i>History, Acceptance, Lamarck</i>	15.1-15.3			
31	Evidence for Evolution	15.5			
32	Selective Breeding	14.3			
33	<i>Understanding Genetics: Mendel</i>	15.1			
34	<i>Speciation</i>	15.4			
35	Fossils	15.6			
36	Extinction	15.6/15.7			
37	Genetic Engineering	14.4			
38	<i>Cloning</i>	14.5			
39	<i>Cloning</i>	14.6/14.7			
40	Classification and new systems	15.9/15.10			
41	Revision				
42	Variation and Evolution Test		% Estimated Grade:		
43	Communities and interdependence	16.1			B16: Adaptations,



44	Biotic and Abiotic factors on pop size and distribution. Food chains and biomass.	16.2/16.4/16.5/17.1		Interdependence and Competition
45	Intro to Population studies and Quadrat investigation	16.3		
46	Population studies: transects	16.3	9. Measuring Population Size	
47	Adaptations of animals	16.6/16.7		
48	Adaptations and competition in plants	16.8		
49	Competition with animals			
50	Water and Carbon Cycle	17.2/17.3		
51	<i>Decomposition</i>	17.4		
52	<i>Decomposition</i>	17.4	10. Rate of Decay	
53	Biodiversity and Deforestation	18.1/18.4		B18: Biodiversity and Ecosystems
54	Waste management and land use	18.2		
55	Waste management and land use	18.2		
56	Global Warming	18.5		
57	Maintaining Biodiversity	18.7		
58	<i>Trophic levels and Biomass</i>	18.8		
59	<i>Pyramids of biomass and energy loss</i>	18.9		
60	<i>Food Security</i>	18.1		
61	<i>Farming techniques and sustainable fisheries</i>	18.11/18.12		
62	<i>Role of Biotechnology</i>	18.12		
63	Biodiversity and Ecosystems Test	%	Estimated Grade:	



Core Chemistry Year 10			
Lesson	Title	Ref	Required Practical
1	Development and structure of the periodic table	C2.1 & C2.2	
2	Group 1 metals - the alkali metals	C2.3	
3	Group 7 metals - the halogens	C2.4	
4	Explaining trends	C2.5	
5	Test + marking	%	Estimated grade:
6	States of matter	C3.1	
7	Ions and ionic bonding	C3.2 & C3.3	
8	Giant ionic structures	C3.4	
9	Covalent bonding	C3.5	
10	Structure of simple molecules	C3.6	
11	Giant covalent structures	C3.7	
12	Fullerenes and graphene	C3.8	
13	Bonding in metals	C3.9	
14	Giant metallic structures	C3.10	
15	Test + marking	%	Estimated grade:
16	Rates of reaction	C8.1	
17	Collision theory and surface area	C8.2	
18	The effect of temperature	C8.3	
19	The effect of concentration and pressure	C8.4	Investigating the effect of concentration on rate of reaction
20	The effect of catalysts	C8.5	
21	Reversible reactions	C8.6	

The periodic table (C2) 6

Structure and bonding (C3) 11

Rates of reaction (C8) 10



22	Energy and reversible reactions	C8.7		
23	Dynamic equilibrium	C8.8		
24	Altering conditions	C8.9		
25	Test + marking		% Estimated grade:	
26	Exothermic and endothermic reactions	C7.1	Investigating temperature changes	Energy changes (C7) 7
27	Using energy transfers from reactions	C7.2		
28	Reaction profiles	C7.3		
29	Bond energy calculations	C7.4		
30	Chemical cells and batteries	C7.5		
31	Fuel cells	C7.6		
32	Test + marking		% Estimated grade:	
33	The reactivity series	C5.1		
34	Displacement reactions	C5.2		
35	Extracting metals	C5.3		
36	Salts from metals	C5.4		
37	Salts from insoluble bases	C5.5		
38	Making more salts	C5.6	Making a salt from a metal carbonate	
39	Neutralisation and the pH scale	C5.7		
40	Strong and weak acids	C5.8		
41	Test + marking		% Estimated grade:	

Core Chemistry Year 11				
Lesson	Title	Ref	Required Practical	
1	Relative mass and moles	C4.1		Chemical Calculations
2	Equation and calculations	C4.2		



3	From masses to balanced equations	C4.3		(C4) 5
4	Expressing concentration	C4.6		
5	Test + marking	%	Estimated grade:	
6	Pure substances and mixtures	C12.1		Chemical Analysis (C12) 3
7	Testing for gases	C12.3		
8	Test + marking	%	Estimated grade:	
9	Hydrocarbons	C9.1		Crude oil and fuels (C9) 6
10	Fractional distillation of oil	C9.2		
11	Burning hydrocarbon fuels	C9.3		
12	Cracking hydrocarbons	C9.4		
13	Test + marking	%	Estimated grade:	
14	The history of our atmosphere	C13.1		The Earth's Resources (C13) 6
15	Our evolving atmosphere	C13.2		
16	Greenhouse gases	C13.3		
17	Global climate change	C13.4		
18	Atmospheric pollutants	C13.5		
19	Test + marking	%	Estimated grade:	
20	Finite and renewable resources	C14.1		The Earth's Resources (C14) 7
21	Water safe to drink	C14.2	Analysis and purification of water samples	
22	Treating waste water	C14.3		
23	Extracting metals from ores	C14.4		
24	Life cycle assessments	C14.5		
25	Reduce, reuse and recycle	C14.6		
26	Test + marking	%	Estimated grade:	
27	Introduction to electrolysis	C6.1		Electrolysis (C6) 5
28	Changes at the electrodes	C6.2		



29	The extraction of aluminum	C6.3	
30	Electrolysis of aqueous solutions	C6.4	Investigating the electrolysis of a solution
31	Test + marking	%	Estimated grade:

Core Physics Year 10			
Lesson	Title	Ref	Required Practical
1	Alternating Current	P5.1	
2	Cables and Plugs	P5.2	
3	Electrical Power and Potential Difference	P5.3	
4	Electrical Currents and Energy Transfer	P5.4	
5	Test + Marking	%	Estimated Grade
6	Energy Demands	P3.1	
7	Energy from Wind and Water	P3.2	
8	Power from the Sun and Earth	P3.3	
9	Energy and the environment	P3.4	
10	Big Energy Issues	P3.5	
11	Test + Marking	%	Estimated Grade
12	Energy Transfer by Conduction	P2.1	Investigating Thermal Insulators
13	Specific Heat Capacity	P2.4	Determining Specific Heat Capacity
14	Heating and Insulating Building	P2.5	
15	Test + Marking	%	Estimated Grade
16	Speed and distance-time graphs	P9.1	
17	Velocity and Acceleration	P9.2	



18	More about Velocity-Time Graphs	P9.3		
19	Analyzing Motion Graphs	P9.4		
20	Test + Marking		% Estimated Grade	
21	Force and Acceleration	P10.1	Investigating the relationship between force and acceleration	P10 Force and Motion
22	Weight and Terminal Velocity	P10.2		
23	Forces and Braking	P10.3		
24	Momentum	P10.4		
25	Forces and Elasticity	P10.8	Investigating the relationship between force and extension for a spring	
26	Test + Marking		% Estimated Grade	
27	Vectors and Scalars	P8.1		
28	Forces Between Objects	P8.2		
29	Resultant Forces	P8.3		
30	Centre of Mass	P8.6		
31	The Parallelogram of Forces	P8.8		
32	Resolution of Forces	P8.9		
33	Test + Marking		% Estimated Grade	
34	Density	P6.1	Calculating Densities	P6 Molecules and Matter
35	States of Matter	P6.2		
36	Changes of state	P6.3		
37	Internal Energy	P6.4		
38	Specific Latent Heat	P6.5		
39	Gas Pressure and Temperature	P6.6		



40	Test + Marking	%	Estimated Grade
----	----------------	---	-----------------

Core Physics Year 11			
Lesson	Title	Ref	Required Practical
1	Current and Charge	P4.2	
2	Potential Difference and Resistance	P4.3	Investigating Resistance
3	Component Characteristics	P4.4	Investigating Electrical Components
4	Series Circuits	P4.5	
5	Parallel Circuits	P4.6	
6	Test + Marking	%	Estimated Grade
7	Magnetic Fields	P15.1	
8	Magnetic Fields of Electric Current	P15.2	
9	The Motor Effect	P15.4	
10	Test + Marking	%	Estimated Grade
11	Atoms and Radiation	P7.1	
12	The Discovery of the Nucleus	P7.2	
13	Changes in the Nucleus	P7.3	
14	More about Alpha, Beta and Gamma Radiation	P7.4	
15	Activity and Half-Life	P7.5	
16	Test + Marking	%	Estimated Grade
17	The Nature of Waves	P12.1	
18	The Properties of Waves	P12.2	

P4 Electric Circuits

P15 Electromagnetism

P7 Radioactivity

P12 Wave Properties



19	Reflection and Refraction	P12.3		
20	More about Waves	P12.4	Investigating plane waves in a ripple tank and waves in a solid	
21	Test + Marking	%	Estimated Grade	
22	The Electromagnetic Spectrum	P13.1		P13 Electromagnetic Waves
23	Light, Infrared, Microwaves and Radio Waves	P13.2	Investigating Infrared Radiation	
24	Communications	P13.3		
25	UV Waves, X-rays, and Gamma Rays	P13.4		
26	X-Rays in Medicine	P13.5		
27	Test + Marking	%	Estimated Grade	

Triple Chemistry Year 10				
Lesson	Title	Ref	Required Practical	
1	Development and structure of the periodic table	C2.1 & C2.2		The periodic table (C2) 6
2	Group 1 metals - the alkali metals	C2.3		
3	Group 7 metals - the halogens	C2.4		
4	Explaining trends	C2.5		
5	<i>The transition metals</i>	C2.6		
6	Test + marking	%	Estimated grade:	
7	States of matter	C3.1		Structure and bonding (C3) 11
8	Ions and ionic bonding	C3.2 & C3.3		
9	Giant ionic structures	C3.4		
10	Covalent bonding	C3.5		



11	Structure of simple molecules	C3.6		
12	Giant covalent structures	C3.7		
13	Fullerenes and graphene	C3.8		
14	Bonding in metals	C3.9		
15	Giant metallic structures	C3.10		
16	<i>Nanoparticles</i>	C3.11		
17	<i>Applications of nanoparticles</i>	C3.12		
18	Test + marking		% Estimated grade:	
19	Rates of reaction	C8.1		Rates of reaction (C8) 10
20	Collision theory and surface area	C8.2		
21	The effect of temperature	C8.3		
22	The effect of concentration and pressure	C8.4	Investigating the effect of concentration on rate of reaction	
23	The effect of catalysts	C8.5		
24	Reversible reactions	C8.6		
25	Energy and reversible reactions	C8.7		
26	Dynamic equilibrium	C8.8		
27	Altering conditions	C8.9		
28	Test + marking		% Estimated grade:	
29	Exothermic and endothermic reactions	C7.1	Investigating temperature changes	Energy changes (C7) 7
30	Using energy transfers from reactions	C7.2		
31	Reaction profiles	C7.3		
32	Bond energy calculations	C7.4		
33	Chemical cells and batteries	C7.5		
34	Fuel cells	C7.6		



35	Test + marking	%	Estimated grade:	
36	The reactivity series	C5.1		Chemical changes (C5) 9
37	Displacement reactions	C5.2		
38	Extracting metals	C5.3		
39	Salts from metals	C5.4		
40	Salts from insoluble bases	C5.5		
41	Making more salts	C5.6	Making a salt from a metal carbonate	
42	Neutralization and the pH scale	C5.7		
43	Strong and weak acids	C5.8		
44	Test + marking	%	Estimated grade:	
45	Relative mass and moles	C4.1		
46	Equation and calculations	C4.2		
47	From masses to balanced equations	C4.3		
48	<i>The yield of a chemical reaction</i>	<i>C4.4</i>		
49	<i>Atom economy</i>	<i>C4.5</i>		
50	Expressing concentration	C4.6		
51	<i>Titrations</i>	<i>C4.7</i>	Carrying out a titration	
52	<i>Titration calculations</i>	<i>C4.8</i>		
53	<i>Volume of gases</i>	<i>C4.9</i>		
54	Test + marking	%	Estimated grade:	
55	Pure substances and mixtures	C12.1		Chemical analysis (C12) 6
56	Testing for gases	C12.3		
57	<i>Testing for positive ions</i>	<i>C12.4</i>		
58	<i>Testing for negative ions</i>	<i>C12.5</i>	Identifying unknown ionic compounds	
59	<i>Instrumental analysis</i>	<i>C12.6</i>		



60	Test + marking		% Estimated grade:	
61	Hydrocarbons	C9.1		Crude oil and fuels (C9) 5
62	Fractional distillation of oil	C9.2		
63	Burning hydrocarbon fuels	C9.3		
64	Cracking hydrocarbons	C9.4		
65	Test + marking		% Estimated grade:	

Triple Chemistry Year 11				
Lesson	Title	Ref	Required Practical	
1	<i>Reaction of alkenes</i>	C10.1		Organic reactions (C10) 5
2	<i>Structure of alcohols, carboxylic acids and ester</i>	C10.2		
3	<i>Reaction and uses of alcohols</i>	C10.3		
4	<i>Carboxylic acids and esters</i>	C10.4		
5	Test + marking		% Estimated grade:	
6	<i>Additional polymerisation</i>	C11.1		Polymers (C11) 5
7	<i>Condensation polymerisation</i>	C11.2		
8	<i>Natural polymers</i>	C11.3		
9	<i>DNA</i>	C11.4		
10	Test + marking		% Estimated grade:	
11	The history of our atmosphere	C13.1		The Earth's resources (C13) 6
12	Our evolving atmosphere	C13.2		
13	Greenhouse gases	C13.3		
14	Global climate change	C13.4		
15	Atmospheric pollutants	C13.5		
16	Test + marking		% Estimated grade:	



17	Finite and renewable resources	C14.1		The Earth's resources (C14) 7
18	Water safe to drink	C14.2	Analysis and purification of water samples	
19	Treating waste water	C14.3		
20	Extracting metals from ores	C14.4		
21	Life cycle assessments	C14.5		
22	Reduce, reuse and recycle	C14.6		
23	Test + marking	%	Estimated grade:	
24	<i>Rusting</i>	<i>C15.1</i>		Using our resources (C15) 9
25	<i>Useful alloys</i>	<i>C15.2</i>		
26	<i>The properties of polymers</i>	<i>C15.3</i>		
27	<i>Glass, ceramics and composites</i>	<i>C15.4</i>		
28	<i>Making ammonia - the Harber process</i>	<i>C15.5</i>		
29	<i>The economics of the Harber process</i>	<i>C15.6</i>		
30	<i>Making fertilizers in the lab</i>	<i>C15.7</i>		
31	<i>Making fertilizers in industry</i>	<i>C15.8</i>		
32	Test + marking	%	Estimated grade:	
33	Introduction to electrolysis	C6.1		Electrolysis (C6) 5
34	Changes at the electrodes	C6.2		
35	The extraction of aluminum	C6.3		
36	Electrolysis of aqueous solutions	C6.4	Investigating the electrolysis of a solution	
37	Test + marking	%	Estimated grade:	



Triple Physics Year 10								
Lesson	Title	Ref	Required Practical		Lesson	Title	Ref	Required Practical
1	Alternating Current	P5.1		P5 Electricity in the Home	32	Vectors and Scalars	P8. 1	
2	Cables and Plugs	P5.2			33	Forces Between Objects	P8. 2	
3	Electrical Power and Potential Difference	P5.3			34	Resultant Forces	P8. 3	
4	Electrical Currents and Energy Transfer	P5.4			35	<i>Moments at Work</i>	P8. 4	
5	Test + Marking	%	Estimated Grade		36	<i>More about Levers and Gears</i>	P8. 5	
6	Energy Demands	P3.1		P3 Energy Resources	37	Centre of Mass	P8. 6	
7	Energy from Wind and Water	P3.2			38	<i>Moments and Equilibrium</i>	P8. 7	
8	Power from the Sun and Earth	P3.3			39	The Parallelogram of Forces	P8. 8	
9	Energy and the environment	P3.4			40	Resolution of Forces	P8. 9	
10	Big Energy Issues	P3.5			41	Test + Marking	%	Estimated Grade
11	Test + Marking	%	Estimated Grade	42	Density	P6. 1	Calculating Densities	
12	Energy Transfer by Conduction	P2.1	Investigating Thermal Insulators	P2 Energy Transfer by Heating	43	States of Matter	P6. 2	
13	<i>Infrared Radiation</i>	P2.2			44	Changes of state	P6. 3	
14	<i>More about Infrared Radiation</i>	P2.3			45	Internal Energy	P6. 4	



15	Specific Heat Capacity	P2.4	Determining Specific Heat Capacity		46	Specific Latent Heat	P6.5	
16	Heating and Insulating Building	P2.5			47	Gas Pressure and Temperature	P6.6	
17	Test + Marking	%	Estimated Grade		48	<i>Gas Pressure and Volume</i>	P6.7	
18	Speed and distance-time graphs	P9.1		P9 Motion	49	Test + Marking	%	Estimated Grade
19	Velocity and Acceleration	P9.2			50	<i>Pressure and Surfaces</i>	P11.1	
20	More about Velocity-Time Graphs	P9.3			51	<i>Pressure in a Liquid at Rest</i>	P11.2	
21	Analysing Motion Graphs	P9.4			52	<i>Atmospheric Pressure</i>	P11.3	
22	Test + Marking	%	Estimated Grade		53	<i>Up thrust and Flotation</i>	P11.4	
23	Force and Acceleration	P10.1	Investigating the relationship between force and acceleration	P10 Force and Motion	54	Test + Marking	%	Estimated Grade
24	Weight and Terminal Velocity	P10.2			55	<i>Electrical Charges and Fields</i>	P4.1	
25	Forces and Braking	P10.3			56	Current and Charge	P4.2	
26	Momentum	P10.4			57	Potential Difference and Resistance	P4.3	Investigating Resistance
27	<i>Using Conservation of Momentum</i>	P10.5			58	Component Characteristics	P4.4	Investigating Electrical Components



28	<i>Impact Forces</i>	P10. 6		59	Series Circuits	P4. 5	
29	<i>Safety First</i>	P10. 7		60	Parallel Circuits	P4. 6	
30	Forces and Elasticity	P10. 8	Investigating the relationship between force and extension for a spring	61	Test + Marking	%	Estimated Grade
31	Test + Marking	%	Estimated Grade	62	Magnetic Fields	P15 .1	
				63	Magnetic Fields of Electric Current	P15 .2	
				64	<i>Electromagnets in Devices</i>	P15 .3	
				65	The Motor Effect	P15 .4	
				66	<i>The Generator Effect</i>	P15 .5	
				67	<i>The Alternating-Current Generator</i>	P15 .6	
				68	<i>Transformers</i>	P15 .7	
				69	<i>Transformers in Action</i>	P15 .8	
				70	Test + Marking	%	Estimated Grade

Triple Physics Year 11			
Lesson	Title	Ref	Required Practical
1	Atoms and Radiation	P7.1	P7



Radioactivity

2	The Discovery of the Nucleus	P7.2		Radioactivity
3	Changes in the Nucleus	P7.3		
4	More about Alpha, Beta and Gamma Radiation	P7.4		
5	Activity and Half-Life	P7.5		
6	<i>Nuclear Radiation in Medicine</i>	P7.6		
7	<i>Nuclear Fission</i>	P7.7		
8	<i>Nuclear Fusion</i>	P7.8		
9	<i>Nuclear Issues</i>	P7.9		
10	Test + Marking	%	Estimated Grade	
11	<i>Formation of the Solar System</i>	P16.1		
12	<i>The Life History of a Star</i>	P16.2		
13	<i>Planets, Satellites and Orbits</i>	P16.3		
14	<i>The Expanding Universe</i>	P16.4		
15	<i>The Beginning and Future of the Universe</i>	P16.5		
16	Test + Marking	%	Estimated Grade	
17	The Nature of Waves	P12.1		P12 Wave Properties
18	The Properties of Waves	P12.2		
19	Reflection and Refraction	P12.3		
20	More about Waves	P12.4	Investigating plane waves in a ripple tank and waves in a solid	
21	<i>Sound Waves</i>	P12.5		
22	<i>The Uses of Ultrasound</i>	P12.6		
23	<i>Seismic Waves</i>	P12.7		



24	Test + Marking	%	Estimated Grade	
25	The Electromagnetic Spectrum	P13.1		P13 Electromagnet ic Waves
26	Light, Infrared, Microwaves and Radio Waves	P13.2	Investigating Infrared Radiation	
27	Communications	P13.3		
28	UV Waves, X-rays, and Gamma Rays	P13.4		
29	X-Rays in Medicine	P13.5		
30	Test + Marking	%	Estimated Grade	
31	<i>Reflection of Light</i>	P14.1		P14 Light
32	<i>Refraction of Light</i>	P14.2	Investigating the reflection and refraction of light	
33	<i>Light and Colour</i>	P14.3		
34	<i>Lenses</i>	P14.4		
35	<i>Using Lenses</i>	P14.5		
36	Test + Marking	%	Estimated Grade	