

# **Red Moor School**

ACORN EDUCATION **AND CARE** 

Science Schedule RMS Foundation Stage (KS1 & 2)									
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Half-Term block	Notes: Each Half-Term block represents a al is covered towards the end of the year	Notes: Each Half-Term block represents approximately 12 Lessons (45 minutes each) over 6-7 weeks. Mixed age sets: Year 3/5 curriculum content, stretched to incorporate teaching at the level of Year 4/6 children. In each set, the more difficult materi- al is covered towards the end of the year to ensure progression for both sets of children. In Year 5/6, each set finishes with a 'Second Look Science' block that brings aspects of science together and helps to consolidate learning.							
	Title: Magnetic fun and games	Title: Fit for Success	Title: A world of living thigs	Title: Feast Of Flowers, Fruits & Seeds	Title: What's the matter?	Title: Sounds spectacular			
Schedule A	Context: 6 sessions including working scientifically. Looks at push & pull forc- es and magnetic force. Banding: SOLAR 1-7	Context: 6 sessions including working scientifically. Focus on food, nutrition and the human skeleton Banding: SOLAR 1-9	Context: 6 sessions including working scientifically. Looks closely at Classifica- tion Banding: SOLAR 1-8	Context: 6 sessions including working scientifically. Focus on plant life cycles. Banding: SOLAR 1-8	Context: 6 sessions including working scientifically. Looking at particle theory of solids, liquids and gases. Banding: SOLAR 1-9	Context: 6 sessions including working scientifically. Understanding how sound travels and is made. Banding: SOLAR 1-9			
	Progression Area: PHYSICS: Forces and magnets.	Progression Area: BIOLOGY:	Progression Area: BIOLOGY: Living things and their habitats.	Progression Area: BIOLOGY: Life cy- cles.	Progression Area: CHEMISTRY: States of matter.	Progression Area: PHYSICS: sound			
Schedule B	Title: This planet rocks Context: 6 sessions including working scientifically. Looking at how rocks, fossils and soil is formed and used. Banding: SOLAR : 2-8 Progression Area: Chemistry & Sci Enq	Title: Shine the light Context: 6 sessions including working scientifically. Looking at how light trav- els, mirrors and shadows. Banding: SOLAR 2-9 Progression Area: PHYSICS: Light	Title: Habitat Helpers Context: 6 sessions including working scientifically. Looking at habitats, adap- tation and pollution. Banding: SOLAR 4-10 Progression Area: BIOLOGY: Animals including humans.	Title: Greatly Green Growers Context: 6 sessions including working scientifically. Focus on plants and their needs and how they work. Banding: SOLAR 1-6 Progression Area: BIOLOGY: Plants an function.	Title: The Circle of Life. Context: 6 sessions including working scientifically. Looking at the digestive system, teeth, food chains and webs Banding: SOLAR 1-9 Progression Area: Biology: Health & Diet and Animals	Title: Electric Personalities Context: 6 sessions including working scientifically. Looking at electrical safe- ty components, circuits and more. Banding: SOLAR 1-7 Progression Area: PHYSICS: Electricity.			
Schedule C	Title: Illustrating life cycles. Context: 6 sessions including working scientifically. Looking at the life cycle of plants, birds, mammals, reptiles and sexual and asexual reproduction Banding: SOLAR 1-9 Progression Area: BIOLOGY:	Title: Material Consultants Context: 6 sessions including working scientifically. Properties and changes of materials. Banding: SOLAR 1-7 Progression Area: PHYSICS	Title: The Human Species Context: 6 sessions including working scientifically. Learning about human development, healthy lifestyles and the circulatory system Banding: SOLAR 1-8 Progression Area: BIOLOGY.	Title: Theatre lighting techniques. Context: 6 sessions including working scientifically. Learning bout light, reflec- tions, shadows, convex and concave mirrors and how the human eye sees light. Banding: SOLAR 1-9 Progression Area: PHYSICS	Title: Electric art. Context: 6 sessions including working scientifically. Learning about electricity. Building parallel and series circuits and using variable resistors. Banding: SOLAR 1-9 Progression Area: PHYSICS	Title: Medical Manoeuvres Context: 6 sessions including working scientifically. An opportunity to revise/ cover all 5 previous sessions. Banding: 1-9 Progression Area: BIO. CHEM. PHYS			
Schedule D	Title: Special Effects Materials Context: 6 sessions including working scientifically. Banding: SOLAR 5-10 Progression Area: CHEMISTRY	Title: Space Presenters Context: 6 sessions including working scientifically. A close look at the solar system, including, day and night, the planets and the lunar month. Banding: SOLAR 1-9 Progression Area: PHYSICS	Title: Welcome to force-land Context: 6 sessions including working scientifically. Learning about forces in balance, air resistance, friction, water resistance, pulleys and gears Banding: SOLAR 3-9 Progression Area: PHYSICS	Title: The Classification Code Context: 6 sessions including working scientifically. Understanding how to classify animals and plants using keys Banding: SOLAR 2-8 Progression Area: BIOLOGY	Title: Survival of the fittest Context: 6 sessions including working scientifically. Learning about Charles Darwin, Evolution, inheritance and fos- sils. Banding: SOLAR 8-11 Progression Area: BIOLOGY	Title: Sensational Science Context: 6 sessions including working scientifically. Integrated revision Could be taught as a science week Includes more Y5/ 6 content on Prop- erties and changes of materials Banding: SOLAR 1-11 Progression Area: BIO_CHEM & PHY			



Science Schedule RMS Foundation Stage (KS2 & 3)							
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Half-Term block	Notes: Each Half-Term block represents approximately <b>18-21</b> Lessons ( <b>45</b> minutes each) over 6-7 weeks. There is an end of Year assessment of progress. Following this, remainder part of the Summer Term, is focussed on developing students confi- dence across the five enquiry types through a variety of enquiry driven activities working scientifically to answer scientific questions. The enquiry types are: observing over time, pattern seeking, identifying-classifying an grouping, comparative and fair testing and researching using secondary sources.						
Schedule A	Title: Working Scientifically, Biology 1.1 Cells & Chemistry 1.1 Particles	Title: Physics 1.1 Forces & Chemistry 1.2 Elements, Atoms & Compounds	Title: Biology 1.2 Body Systems, Phys- ics 1.2 Sound	Title: Chemistry 1.3 Reactions & Phys- ics 1.3 Light	Title: Biology 1.3 Reproduction & Chemistry 1.4 Acids & Alkalis	Title: Physics 1.4 Space & Skills Project.	
	Context: 20 sessions & 2 checkpoint assessments.	Context: 13-15 sessions & 2 checkpoint assessments.	Context: 13-15 sessions & 2 checkpoint assessments.	Context: 15 sessions & 2 checkpoint assessments.	Context: 15 sessions & 2 checkpoint assessments.	Context: 13-14 sessions & a check- point assessments.	
	Banding: SOLAR 1 - 10.	Banding: SOLAR 1-9	Banding: SOLAR 1-9	Banding: SOLAR 1-10	Banding: SOLAR 2-10	Banding: SOLAR 1-10	
	Progression Area: Working Scientifical- ly/ Biology/ Chemistry.	Progression Area: Physics/ Chemistry& Working Scientifically.	Progression Area: Biology/ Physics & Working Scientifically.	Progression Area: Chemistry/ Physics & Working Scientifically.	Progression Area: Biology/ Chemistry & Working Scientifically.	Progression Area: Physics/ Chemistry/ Biology & Working Scientifically.	
Schedule B	Title: Physics 2.1 Electricity & Mag- netism, Chemistry 2.1 Periodic Table	Title: Biology 2.1 Health & Lifestyle, Physics 2.2 Energy	Title: Chemistry 2.2 Separation Tech- niques, Biology 2.2 Ecosystem Process- es	Title: Physics 2.3 Motion & Pressure, Chemistry 2.3 Metals & Acids	Title: Biology 2.3 Adaptation & Inher- itance, Chemistry 2.4 The Earth	Title: Physics 2.4 Environment, & Skills Project	
	Context: 17 sessions & 2 checkpoint assessments.	Context: 16-18 sessions & 2 checkpoint assessment.	Context: 13-14 sessions & 2 checkpoint assessments.	Context: 13-14 sessions & 2 checkpoint assessments.	Context: 14 sessions & 2 checkpoint assessments.	Context: 18 sessions & a checkpoint assessment.	
	Banding: SOLAR 3-10	Banding: SOLAR 2-10	Banding: SOLAR 3-10	Banding: SOLAR 2-10	Banding: SOLAR 3-11	Banding: SOLAR 2-11	
	Progression Area: Physics/ Chemistry & Working Scientifically.	Progression Area: Biology/ Physics & Working Scientifically.	Progression Area: Chemistry/ Biology & Working Scientifically.	Progression Area: Physics/ Chemistry & Working Scientifically.	Progression Area: Biology/ Chemistry & Working Scientifically.	Progression Area: Physics/ Chemistry/ Biology & Working Scientifically.	



Science Schedule RMS Options Stage (KS4)								
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summ			
Half-Term block	Notes: Each Half-Term block represents approximately <b>12</b> Lessons ( <b>45</b> minutes each) over 6-7 weeks. Achieving the <b>ASDAN Short Course</b> , students have the option of accrediting <b>up to 60 hours</b> of science activities. For every 10 hours, you are awarded 1 credit e.g. 10 hours = 1 credit, 30 hours = copy of the 'Short Course' book and a portfolio (file or folder) into which you will put your evidence. Student chooses either: 4 challenges from 'A' or up to 2 challenges from 'B' over 10 hours jectives if folder. There are 3 Short Course Skills Sheets. They will help you to Plan your challenges and then Review your work when you've completed them e.g. Completed 10 to 20 hours - complete Skills Sheets 1 & 2, completed 50 to 60 hours - complete Skills Sheets 1, 2 & 3. Before submitting your portfolio of evidence and Skills Sheets, fill-in the Summary of Achievement and							
	Title: Module 1—Human Machine	Title: Module 2—Force and Motion	Title: Module 3—Chemical Changes	Title: Module 4—Biological Changes	Title: Module 5—Spa			
Schedule A	Context: 'A' challenges include: infra- red thermometer, research on the in- ternet, mathematical challenges, sur- veys and nutritional properties of food. Portfolio of evidence.	Context: 'A' challenges include: mass/ volume investigation, spaghetti tower build, tensile strength, effect in a lift, air resistance, bone strength or care safety. Portfolio of evidence & *Skills Sheet 1	Context: 'A' challenges include: change in mass, acidity, temperature change, metals and water, exothermic reac- tions, indicators, crystalline. Portfolio of evidence.	Context: 'A' challenges include: different cells, percentage cover, threat of extinction, the effect of stimulants, ecology, phototropism, extinction in- vestigation. Portfolio of evidence & *Skills Sheets 1 & 2.	Context: 'A' challenge watch, stop motion a Solar System, shadov strikes, quiz and 1st Portfolio of evidence.			
	Banding: SOLAR 2-11	Banding: SOLAR 1-11	Banding: SOLAR 1-11	Banding: SOLAR 2-11	Banding: SOLAR 1-11			
	Progression Area: BIOLOGY/ CHEMIS- TRY/ PHYSICS/ ENQUIRY/ ASDAN Sci- ence Short Course 1 credit.	Progression Area: PHYSICS/ CHEMIS- TRY/ ENQUIRY/ ASDAN Science Short Course 1—2 credits.	Progression Area: CHEMISTRY/ EN- QUIRY/ ASDAN Science Short Course 1—3 credits.	Progression Area: BIOLOGY/ CHEMIS- TRY/ PHYSICS/ ENQUIRY/ ASDAN Sci- ence Short Course 1—4 credits.	Progression Area: PH ASDAN Science Short its.			
	Title: Module 1—Human Machine	Title: Module 2—Force and Motion	Title: Module 3—Chemical Changes	Title: Module 4—Biological Changes	Title: Module 5—Spa			
Schedule B	Context: 'B' challenges include: reac- tion speeds, human fertility, co- ordination, growth rate of children and research into beauty products. Portfo- lio of evidence.	Context: 'B' challenges include: force protection, construction, friction, veloc- ity, elasticity and earth quake re- sistance. Portfolio of evidence & *Skills Sheet 1	Context: 'B" challenges include: elastic- ity, geology, temperature changes, forensics and recycling. Portfolio of evidence.	Context: 'B' challenges include: germi- nation, pioneer planting, the environ- ment, calorific intake and Latin squares. Portfolio of evidence & *Skills Sheets 1 & 2.	Context: 'B' challenge challenge, space rove satellite, building con lar car challenge. Po dence.			
	Banding: SOLAR 2-11	Banding: SOLAR 1-11	Banding: SOLAR 1-11	Banding: SOLAR 2-11	Banding: SOLAR 1-11			
	Progression Area: BIOLOGY/ CHEMIS- TRY/ PHYSICS/ ENQUIRY/ ASDAN Sci- ence Short Course 1 credit.	Progression Area: PHYSICS/ CHEMIS- TRY/ ENQUIRY/ ASDAN Science Short Course 1–2 credits.	Progression Area: CHEMISTRY/ EN- QUIRY/ ASDAN Science Short Course 1—3 credits.	Progression Area: BIOLOGY/ CHEMIS- TRY/ PHYSICS/ ENQUIRY/ ASDAN Sci- ence Short Course 1—4 credits.	Progression Area: PH ASDAN Science Short its.			
	Title: Recording Documents	Title: Unit Award Scheme	Title: Unit Award Scheme	Title: Unit Award Scheme	Title: Unit Award Sch			
Schedule C	Context: Summary of Achievement and Personal Statement to be completed. Ensure your portfolio of evidence is complete/ up to date. Submit to PJA for moderation.	Context: The Unit Award Scheme (UAS) is a unique recording of achievement scheme, rather than a qualification. It offers learners the opportunity to have their achievements formally recognised with a certificate each time a short unit of learning is successfully completed.	Context: The Unit Award Scheme (UAS) is a unique recording of achievement scheme, rather than a qualification. It offers learners the opportunity to have their achievements formally recognised with a certificate each time a short unit of learning is successfully completed.	Context: The Unit Award Scheme (UAS) is a unique recording of achievement scheme, rather than a qualification. It offers learners the opportunity to have their achievements formally recognised with a certificate each time a short unit of learning is successfully completed.	Context: The Unit Av is a unique recording scheme, rather than a offers learners the op their achievements fo with a certificate each of learning is success			
	Banding: SOLAR 6-11	Banding: SOLAR Biology, Chemistry, Physics, Science enquiry 1—10	Banding: SOLAR Biology, Chemistry, Physics, Science enquiry 1—10	Banding: SOLAR Biology, Chemistry, Physics, Science enquiry 1—10	Banding: SOLAR Biolo Physics, Science enqu			
	Progression Area: ENQUIRY/ ASDAN Science Short Course 1—6 credits.	Progression Area: BIOLOGY/ CHEMIS- TRY/ PHYSICS/ ENQUIRY/ Pre-Entry Level to Level 3	Progression Area: BIOLOGY/ CHEMIS- TRY/ PHYSICS/ ENQUIRY/ :Pre-Entry Level to Level 13	Progression Area: BIOLOGY/ CHEMIS- TRY/ PHYSICS/ ENQUIRY/ Pre-Entry Level to Level 3	Progression Area: Blo TRY/ PHYSICS/ ENQU Level to Level 3			



ner 1

Summer 2

= 3 credits, 60 hours = 6 credits. You will need your own rs to attain 1 credit. Collate evidence to meet challenge obcomplete Skills Sheet 1, completed 30 to 40 hours d Personal Statement.

ce Physics	Title: Module 6—Performance in Sport		
es include: star nimation, the v angles, meteor man on the Moon.	Context: 'A' challenges include: activity survey & peak flow, pulse rate vs 'pose', measuring distance travelled, friction vs speed, grip strength, sporty or not? and performance enhance- ment. Portfolio of evidence & *Skills Sheets 1, 2 & 3.		
	Banding: SOLAR 1-11		
YSICS/ ENQUIRY/ Course 1—5 cred-	Progression Area: BIOLOGY/ PHYSICS/ ENQUIRY/ ASDAN Science Short Course 1—6 credits.		
ce Physics	Title: Module 6—Performance in Sport		
es include: Mars r, solar-powered struction and so- rtfolio of evi-	Context: 'B' challenge include: shuttle run, who's a kangaroo?, speed of cool- ing, world records & performance and sports challenges. Portfolio of evi- dence & *Skills Sheets 1, 2 & 3.		
	Banding: SOLAR 1-11		
YSICS/ ENQUIRY/ Course 1—5 cred-	Progression Area: BIOLOGY/ PHYSICS/ ENQUIRY/ ASDAN Science Short Course 1—6 credits.		
eme	Title: Unit Award Scheme		
vard Scheme (UAS) of achievement a qualification. It portunity to have prmally recognised in time a short unit fully completed.	Context: The Unit Award Scheme (UAS) is a unique recording of achievement scheme, rather than a qualification. It offers learners the opportunity to have their achievements formally recog- nised with a certificate each time a short unit of learning is successfully completed.		
gy, Chemistry, iry 1—10	Banding: SOLAR Biology, Chemistry, Physics, Science enquiry 1—10		
DLOGY/ CHEMIS- RY/ Pre-Entry	Progression Area: BIOLOGY/ CHEMIS- TRY/ PHYSICS/ ENQUIRY/ Pre-Entry Level to Level 3		

	Science Schedule RMS Options Stage (KS4)							
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summe			
Half-Term block	Notes: Each Half-Term block represents approximately 18 Lessons (45 minutes each) over 6-7 weeks. Entry Level Certificate is designed for students who may not achieve a Grade 1, but you can also use it as a motivational tool to build confidence for your Foundation Tier students.							
Schedule A	<ul> <li>Title: Biology Component 1—The Human Body</li> <li>Context: 10 outcomes: cells, levels of organisation, digestive system, respiration, infectious diseases, white blood cells &amp; vaccinations, medical drugs, CNS and reflex action, hormones and controlling fertility. 6 required practicals: using a microscope, pH on rate of reaction, food tests, disinfectant use and stimulants on reaction rate. <i>*End of unit Assessments</i>. UAS Entry Level: 72665, 72666, 0544, 72261, 83007, 93853, 108015 (Unit 1), 110438, 110440, 113477, 111146, 111248, 108016 (Unit 2), 108017 (Unit 3), 108120 (Unit 4), 113075 (Unit 3). Entry Level with support: 113258 (Unit 1), 111251 (Unit 2) and 113262 (Unit 3). Level One: 87274, 93855, 108937, 113477, 113560. Level Two: 113081 (Unit 2), 113075 (Unit 3), 113099 (Unit 7).</li> <li>Banding: SOLAR Biology 2-11, Scientific Enquiry 4-11.</li> <li>Progression Area: BIOLOGY/ SCIENTIFIC ENQUIRY</li> </ul>		Title: Chemistry Component 3—Element Context: 10 outcomes: atoms & element matter, forms of carbon, mixtures, chron properties of metals, alloys and polymer als & oxygen, change in states, propertie chromatography, model smelting, condu <i>ments.</i> UAS Entry Level: 82046, 108054 108057 (Unit 4), 108058, 108059, 10806 113193. Entry Level with support: 11325 3) and 113265 (Unit 4). Level One - 8318 Banding: SOLAR Chemistry 6-11, Scientif Progression Area: CHEMISTRY/ SCIENTIF	Title: Physics Compon Context: 10 outcomes energy resources, type tion times and stoppin activity, 7 required pra generation, pushes/ pu *End of unit Assessmen 108065 (Unit 1), 10806 111182. Entry Level w 3) and 113269 (Unit 4) Banding: SOLAR Physic Progression Area: PHYS				
Schedule B	Title: Chemistry Component 4: Chemistry Context: 10 outcomes: acids and metal re- rate of reaction, increasing rate of chemic phere, current atmosphere, crude oil and on the atmosphere and water for drinking neutralisation reactions, temperature cha- of aquatic plants, amount of CO2 in air vs- ucts of combustion and distillation. <i>*End</i> el : 98495, 10546, 10547, 15203, 108058 3) and 108061 (Unit 4). Level One - 86162 Banding: SOLAR Chemistry 9-11, Biology 9 Progression Area: CHEMISTRY/ BIOLOGY/	in our world. eactions, neutralisation, energy and al reaction, changes in Earth's atmos- fuels, burning fuels, human influences g. 9 required practicals: metals & acid, nges, reaction rates, oxygen production exhaled air, fractional distillation, prod- of unit Assessments. UAS Entry Lev- (Unit 1), 108059 (Unit 2), 108060 (Unit 9-10, Scientific enquiry 4-11. SCIENTIFIC ENQUIRY	Title: Physics Component 6— Electricity, Context: 10 outcomes: current in a circu ergy transfer, magnets, electromagnets, EMS. 10 required practicals: series circuir meter readings, bar magnets and compa waves and their shapes, u.v. radiation an UAS Entry Level: 73464, 15205, 10548, 1 (Unit 3), 108072 (Unit 5), 110503, 11184 113260 (Unit 1), 113266 and 113267. Le Banding: SOLAR Physics 4-11, Science en Progression Area: PHYSICS/ SCIENTIFIC E	, magnetism and waves. wit, d.c. & a.c. currents, wiring a plug, en- waves, wave properties, EMS, uses of the ts, oscilloscope patterns, plugs & fuses, usses, magnetic field & electromagnets, and microwaves. <i>*End of unit Assessments</i> . 08068 (Unit 1), 108069 (Unit 2), 108070 9, 111162. Entry Level with support: evel One: 71037. Enquiry 4-11. ENQUIRY	Title: Biology Component Context: 10 outcomes cycle, competition, envi tion, types of reproduce rate of photosynthesis, bution of populations, <i>sessments.</i> UAS Entry 108052 (Unit 2), 10805 71039. Level Two: 113 Banding: SOLAR Biology Progression Area: BIOL			



r 1

Summer 2

ent 5—Energy, forces and the structure of matter.

s: Changes in energy storage, energy transfers and efficiency, es of forces, effects of forces, speed, stopping distance, reacng distances, weather conditions and braking distances, radioacticals: specific heat capacity, thermal conductivity, voltage ulls, attraction/ repulsion, friction, speed and reaction time. *INTS*. UAS Entry Level: 75529, 86836, 10548, 10549, 15204, 66 (Unit 2), 108067 (Unit 3), 108073 (Unit 4), 111180, *V*ith support: 113260 (Unit 1), 113266 (Unit 2), 113267 (Unit ).

cs 4-5 & 9-11, Scientific enquiry 4-11. SICS/ SCIENTIFIC ENQUIRY

ent 2— Environment, evolution and inheritance.

E: photosynthesis, adaptation, food chains & webs, decay vironmental changes, pollution, evolution & natural selecction, genes/ chromosomes & DNA. 7 required practicals: c, choice chambers, causes of decay, growth of plants, distriacid rain, asexual reproduction in plants. *\*End of unit As*y Level: 70358, 87275, 10545, 15201, 108051 (Unit 1), 53 (Unit 3), 110437, 110439, 110525, 112006. Level One: 3085 (Unit 1), 113086 (Unit 2), 113088 (Unit 4).

gy 7-11, Chemistry 10, Scientific enquiry 4-11. LOGY/ CHEMISTRY/ SCIENTIFIC ENQUIRY

Science Schedule RMS Options Stage (KS4)									
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Half-Term block	Notes: Each Half-Term block represer ble students to engage in a broader ra	Notes: Each Half-Term block represents approximately 12-14 Lessons (45 minutes each) over 6-7 weeks. (4 lessons per week @ 45 minutes per lesson = 3 hours per week). The planning is presented with a 'split' timetable to enable students to engage in a broader range of topical learning with two teachers. Hence for each schedule—A.B and C it is split into 1 and 2 which will be covered simultaneously.							
Schedule A 1 2 lessons per week	<ul> <li>Title: Physics 1: Energy</li> <li>Context: 12 sessions &amp; a checkpoint assessment. Students are supported during their transition, settling into a new timetable and developing a secure level of comprehension and skills, set across the five enquiry types.</li> <li>Banding: SOLAR STEPS 9-10</li> <li>Progression Area: Physics/ Scientific Enquiry.</li> </ul>		<ul> <li>Title: Chemistry 1: Atomic structure and the periodic table and Physics 4: Atomic Structure.</li> <li>Context: 12 + 6 sessions &amp; 2 checkpoint assessments. Students develop greater independence and a deeper level of comprehension and skills set across the five enquiry types.</li> <li>Banding: SOLAR: CHEM STEPS 6-11 &amp; PHYS STEPS 9-10</li> <li>Progression Area: Chemistry/ Physics/ Scientific Enquiry.</li> </ul>		<ul> <li>Title: Physics 3: Particle Model and Matter.</li> <li>Context: 10 sessions &amp; a checkpoint assessment. Students develop greater independence and enquiry based approach to broaden their level of comprehension and skills set across the five enquiry types.</li> <li>Banding: SOLAR STEPS 6-9</li> <li>Progression Area: Physics/ Chemistry/ Scientific Enquiry.</li> </ul>				
Schedule A 2 2 lessons per week	Title: Biology 1: Cell Biology Context: 11 sessions & a checkpoint assessment. Students are supported during their transition, settling into a new timetable and developing a secure level of comprehension and skills, set across the five enquiry types. Banding: SOLAR 1-11 Progression Area: Biology/ Scientific Enquiry.		<ul> <li>Title: Biology 6: Reproduction, Inheritance, Variation and Evolution.</li> <li>Context: 16 sessions &amp; a checkpoint assessment. Students develop greater independence and a deeper level of comprehension and skills set across the five enquiry types.</li> <li>Banding: SOLAR 4-11</li> <li>Progression Area: Biology/ Scientific Enquiry.</li> </ul>		<ul> <li>Title: Chemistry 2: Structure, bonding and the properties of matter.</li> <li>Context: 12 sessions (Foundation) &amp; a checkpoint assessment. Students develop greater independence and enquiry based approach to broaden their level of comprehension and skills set across the five enquiry types.</li> <li>Banding: SOLAR 6-11</li> <li>Progression Area: Chemistry/ Scientific Enquiry.</li> </ul>				
Schedule B 1 2 lessons per week	Title: Physics 2: Electricity. Context: 14 sessions & a checkpoint assessment. Banding: SOLAR 4-11 Progression Area: Physics/ Scientific Enquiry.	Title: Chemistry 4: Chemical Changes. Context: 12 sessions & a checkpoint assessment. Banding: SOLAR 4-11 Progression Area: Chemistry/ Scientific Enquiry.	Title: Chemistry 5: Energy Changes Context: 4 sessions & a checkpoint as- sessment. Banding: SOLAR 5-11 Progression Area: Chemistry/ Scientific Enquiry.	Title: Physics 5: Forces and Motion. Context: 17 sessions & a checkpoint assessments. Banding: SOLAR 3-11 Progression Area: Physics/ Scientific Enquiry.	Title: Physics 7: Magnetism and Elec- tromagnetism. Context:7 sessions & a checkpoint as- sessment. Banding: SOLAR 3-9 Progression Area: Physics/ Scientific Enquiry.	Title: Title: Chemistry 3: Quantitative Chemistry. Context:5 sessions (Foundation) & a checkpoint assessment. Banding: SOLAR 4-11 Progression Area: Chemistry/ Scientific Enquiry.			
Schedule B 2 2 lessons per week	Title: Biology 3: Organisation Context: 16 sessions & a checkpoint assessment. Banding: SOLAR 4-11 Progression Area: Biology/ Scientific Enquiry.	Title: Biology 4: Infection & Response Context: 8 sessions & a checkpoint as- sessment. Banding: SOLAR 4-10 Progression Area: Biology/ Scientific Enquiry.	Title: Chemistry 6: Rate of Chemical Change. Context: 7 sessions (Foundation) & a checkpoint assessment. Banding: SOLAR 3-11 Progression Area: Chemistry/ Scientific Enquiry.	Title: Biology 5: Homeostasis Context: 9 sessions & a checkpoint as- sessment. Banding: SOLAR 4-10 Progression Area: Biology/ Scientific Enquiry.	Title: Biology 2: Bioenergetics. Context: 10 sessions & a checkpoint assessment. Banding: SOLAR 3-10 Progression Area: Biology/ Scientific Enquiry.	Title: Chemistry 7: Organic Chemistry. Context: 5 sessions (Foundation) & a checkpoint assessment. Banding: SOLAR 4-11 Progression Area: Chemistry/ Scientific Enquiry.			



Science Schedule RMS Options Stage (KS4)								
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Half-Term block	Notes: Each Half-Term block represents approximately 12-14 Lessons (45 minutes each) over 6-7 weeks. (4 lessons per week @ 45 minutes per lesson = 3 hours per week). The planning is presented with a 'split' timetable to enable students to enable and c it is split into 1 and 2 which will be covered simultaneously.							
Schedule C 1 2 lessons per week	Title: Physics 6: Waves. 12 lessons (Foundation) Context: 12 sessions (Foundation) & a checkpoint assessment. Banding: SOLAR 5-11 Progression Area: Physics/ Scientific Enquiry.	<ul> <li>Title: Chemistry 9: The Atmosphere and 8: Chemical Analysis.</li> <li>Context: 7 + 4 sessions &amp; 2 checkpoint assessments.</li> <li>Banding: SOLAR 6-11 &amp; 5-11</li> <li>Progression Area: Chemistry/ Scientific Enquiry.</li> </ul>	Title: Revision Context: Checkpoint/ follow up with support and extension work. Banding: SOLAR 7-11 Progression Area: Biology/ Chemistry/ Physics/ Scientific Enquiry.	Title: Revision Context: Checkpoint/ follow up with support and extension work. Banding: SOLAR 7-11 Progression Area: Biology/ Chemistry/ Physics/ Scientific Enquiry.	Title: Revision Context: Checkpoint/ follow up with support and extension work. Banding: SOLAR 7-11 Progression Area: Biology/ Chemistry/ Physics/ Scientific Enquiry.	Title: Exams Context: Checkpoint/ follow up with support and extension work. Banding: SOLAR 7-11 Progression Area: Biology/ Chemistry/ Physics/ Scientific Enquiry.		
Schedule C 2 2 lessons per week	Title: Biology 7: Evolution. Context: 8 sessions & a checkpoint as- sessment. Banding: SOLAR 5-10 Progression Area: Biology/ Scientific Enquiry.	Title: Chemistry 10: Sustainable devel- opment. Context: 6 sessions (Foundation) & a checkpoint assessment. Banding: SOLAR 5-10 Progression Area: Chemistry PHYSICS Scientific Enquiry.	Title: Biology 8: Ecology. Context: 12 sessions & a checkpoint assessment. Banding: SOLAR 6-10 Progression Area: Biology/ Scientific Enquiry.	Title: Revision Context: Checkpoint/ follow up with support and extension work. Banding: SOLAR 7-11 Progression Area: Biology/ Chemistry/ Physics/ Scientific Enquiry.	Title: Revision Context: Checkpoint/ follow up with support and extension work. Banding: SOLAR 7-11 Progression Area: Biology/ Chemistry/ Physics/ Scientific Enquiry.	Title: Exams Context: Checkpoint/ follow up with support and extension work. Banding: SOLAR 7-11 Progression Area: Biology/ Chemistry/ Physics/ Scientific Enquiry.		

