

KS4-Home Learning Resources

PATIENCE • GUIDANCE • DETERMINATION



Meadow Park

Patience, Guidance and Determination

Week 1	Maths	English	Science GCSE	Science BTEC
Monday	https://whiterosemaths.com/homelearning/year-10/	Weekly focus: Reading to Writing: Descriptive	https://app.senecalearning.com/login Class code: htvdtfbdzf	https://www.bbc.co.uk/bitesize/topics/znyycdm
	FOCUS Shape and Angle facts	https://www.thenational.academy/year-10/english/reading-skills-unseen-fiction-cold-mountain-year-10-wk3-1	FOCUS: Over 2 lessons Recap of cell structure (Extension: Movement of substances into and out of cell) <ol style="list-style-type: none"> 1. Click on the link 2. Sign in 3. Join class with the red code above. Read the information and complete the exercises.	FOCUS: Recap of plant and animal cells (Unit 1: exam unit) <ol style="list-style-type: none"> 1. Click on the following titles found in the link above. <ul style="list-style-type: none"> • What are cells? • What are specialised cells? • Differences between animal and plant cells • Organs of the human body Read the information/watch the clips and complete the

				quizzes/ activities included.
Tuesday	https://whiterosemaths.com/homelearning/year-10/	https://www.thenational.academy/year-10/english/journeys-in-literature-cold-mountain-year-10-wk3-2		
	FOCUS Parallel lines			
Wednesday	https://whiterosemaths.com/homelearning/year-10/	https://www.thenational.academy/year-10/english/descriptive-detail-close-analysis-year-10-wk3-3	https://app.senecalearning.com/login Class code: htvdtfbdzf	https://www.bbc.co.uk/bitesize/topics/znnycdm
	FOCUS Regular polygons		FOCUS: Continued from lesson 1 Recap of cell structure (Extension: Movement of substances into and out of cell)	FOCUS: Recap of plant and animal cells (Unit 1: exam unit) 1. Click on the following titles found in the link above. <ul style="list-style-type: none"> • What is the structure of a leaf? • What are the organs of a plant? EXTENSION: How to dissect a chicken leg. Read the information/watch the

				clips and complete the quizzes/ activities included.
Thursday	https://whiterosemaths.com/homelearning/year-10/	https://www.thenational.academy/year-10/english/descriptive-writing-planning-techniques-year-10-wk3-4		
	FOCUS Exterior Angles			
Friday	https://whiterosemaths.com/homelearning/year-10/	https://www.thenational.academy/year-10/english/descriptive-writing-slow-write-year-10-wk3-5	https://app.senecalearning.com/login Class code: htvdtfbdzf	https://www.bbc.co.uk/bitesize/topics/znnycdm
	FOCUS Shape and Angle facts		FOCUS: Recap of cell organisation (cells, tissues, organs and organ systems)	FOCUS: Recap of plant and animal cells (Unit 1: exam unit) 1. Click on the following title found in the link above. <ul style="list-style-type: none"> Cells to systems: Revise and Test 2. Read the information/watch the clips and complete the online test.

Week 2	Maths	English	Science GCSE	Science BTEC
Monday	https://whiterosemaths.com/homelearning/year-10/	Weekly Focus: Unseen Texts: Reading Skills: Pre-1900 Dracula	https://app.senecalearning.com/login Class code: htvdttfbdzf	https://www.bbc.co.uk/bitesize/topics/zpffr82
	FOCUS Circumference of a circle	https://www.thenational.academy/year-10/english/unseen-fiction-texts-pre-1900-year-10-wk2-1	FOCUS: Over 2 lessons Recap of the heart and lungs	FOCUS: Recap of inheritance and genetics (Unit 1: exam unit) 1. Click on the following titles found in the link above. <ul style="list-style-type: none"> • What is DNA? • What is variation? EXTENSION: <ul style="list-style-type: none"> • What is Natural Selection? 2. Read the information/watch the clips and complete the quizzes/activities included
Tuesday	https://whiterosemaths.com/homelearning/year-10/	https://www.thenational.academy/year-10/english/mary/eve-dichotomy-year-10-wk2-2		
	FOCUS Area of a circle			
Wednesday	https://whiterosemaths.com/homelearning/year-10/	https://www.thenational.academy/year-10/english/thinking-about-space-where-	https://app.senecalearning.com/login Class code: htvdttfbdzf	https://www.bbc.co.uk/bitesize/topics/zpffr82
	FOCUS		FOCUS: Continued from lesson 1	FOCUS: Recap of inheritance and genetics

	Area of a sector	do-women-belong-year-10-wk2-3	Recap of the heart and lungs	(Unit 1: exam unit) 2. Click on the following title found in the link above. <ul style="list-style-type: none"> DNA: Revise and Test 2. Read the information/watch the clips and complete the online test.
Thursday	https://whiterosemaths.com/homelearning/year-10/	https://www.thenational.academy/year-10/english/responding-to-evaluation-questions-year-10-wk2-4		
	FOCUS Length of an arc			
Friday	https://whiterosemaths.com/homelearning/year-10/	https://www.thenational.academy/year-10/english/evaluation-writing-it-up-year-10-wk2-5	https://app.senecalearning.com/login Class code: htvdffbzd	https://app.senecalearning.com/login Class code: 5puwdcaajw
	FOCUS Friday maths challenge		FOCUS: Recap of digestion	FOCUS: Assessing knowledge understanding of DNA and inheritance <ol style="list-style-type: none"> Follow the link above Sign in Join class with the

				red code above Read the information and complete the questions.
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Week 3	Maths	English	Science GCSE	Science BTEC
Monday	https://www.thenational.academy/online-classroom/year-10/maths#subjects	Weekly Focus: Unseen Texts: Reading Skills: The Tiredness of Rosabel	https://app.senecalearning.com/login Class code: htvdtfbdz	https://app.senecalearning.com/login Class code: 5puwdcaqjw
	FOCUS Factorising quadratic expressions	https://www.thenational.academy/year-10/english/approaching-unseen-fiction-texts-year-10-wk1-1	FOCUS: Recap of the nervous system	FOCUS: Assessing knowledge understanding of cells
Tuesday	https://www.thenational.academy/online-classroom/year-10/maths#subjects	https://www.thenational.academy/year-10/english/characterisation-types-and-function-year-10-wk1-2		
	FOCUS Factorising quadratic expressions (past 2)			
Wednesday	https://www.thenational.academy/online-	https://www.thenatio	https://app.senecalearning.com/login	https://app.senecalearning.com/login

	classroom/year-10/maths#subjects	nal.academy/year-10/english/language-analysis-selection-of-evidence-year-10-wk1-3	Class code: htvdtfbdz	Class code: 5puwdcaajw
	FOCUS Solving equations		FOCUS: Recap of the endocrine system	FOCUS: Recap of the homeostasis (nervous system)
Thursday	https://www.thenationalacademy/online-classroom/year-10/maths#subjects	https://www.thenationalacademy/year-10/english/language-analysis-analytical-writing-year-10-wk1-4		
	FOCUS Solving equations (part 2)			
Friday	https://www.thenationalacademy/online-classroom/year-10/maths#subjects	https://www.thenationalacademy/year-10/english/analysing-structural-features-year-10-wk1-5	https://app.senecalearning.com/login Class code: htvdtfbdz	https://app.senecalearning.com/login Class code: 5puwdcaajw
	FOCUS Representing inequalities		FOCUS: Recap of DNA and inheritance (Extension: Mitosis and Meiosis)	FOCUS: Recap of the homeostasis (endocrine system)

Week 1-Options	Computing	Art	Construction	PE	Food	Childcare
Lesson 1	https://www.bbc.co.uk/bitesize/guides/zbfny4j/revision/1	https://www.bbc.co.uk/bitesize/guides/z3dthv4/revision/1	https://m.youtube.com/watch?v=Zolj1qjYZUE	https://www.bbc.co.uk/bitesize/guides/zq3sbk7/revision/1	https://www.bbc.co.uk/bitesize/guides/z8rqw6f/revision/1	https://www.crawshawacademy.org.uk/Academic_Year_2017_-_2018/Year_11/GCSE_Child_Development_workbook_1.pdf
	<p>Systems architecture:</p> <ul style="list-style-type: none"> • What is systems architecture? • What is the fetch decode and execute cycle? 	Painting	<p>SUSTAINABILITY (2/3 slides)</p> <ul style="list-style-type: none"> • Why is it important to create sustainable forests? • How are they created to ensure trees are replaced? 	<p>Skeletal System</p> <ul style="list-style-type: none"> • How many bones are the human body? • How many functions does the skeletal system have? • What are the functions of the skeletal system? 	Food and nutrition for good health	Family types – Nuclear Family
Lesson 2	https://www.bbc.co.uk/bitesize/guides/zd4r97h/revision/1	https://www.bbc.co.uk/bitesize/guides/zc7sfrd/revision/1	https://www.youtube.com/watch?v=tvY26Bjlpng	https://www.bbc.co.uk/bitesize/guides/zpkr82p/revision/1	https://www.bbc.co.uk/bitesize/guides/zqj66yc/revision/1	https://www.crawshawacademy.org.uk/Academic_Year_2017_-_2018/Year_11/GCSE_Child_Development_workbook_1.pdf
	<p>Memory:</p> <ul style="list-style-type: none"> • What is primary 	Drawing	<p>RECYCLING (2/3 slides)</p> <ul style="list-style-type: none"> • What is 	<p>Muscular System</p> <ul style="list-style-type: none"> • What are different types of 	Energy and nutrients	Extended and single parent family

	<p>memory?</p> <ul style="list-style-type: none"> • What are the functions of primary memory? 		<p>upcycling</p> <ul style="list-style-type: none"> • What is downcycling? • How can we employ these methods in the construction business? 	<p>muscles.</p> <ul style="list-style-type: none"> • What are the functions of the muscular system? 		
Lesson 3	https://www.bbc.co.uk/bitesize/guides/z67j2nb/revision/1	https://www.bbc.co.uk/bitesize/guides/zc7mng8/revision/1	https://www.youtube.com/watch?v=LLofmnlldzs	https://www.thenational.academy/online-classroom/pe#subjects	https://www.bbc.co.uk/bitesize/guides/ztw3y4j/revision/1	https://www.crawshawacademy.org.uk/Academic_Year_2017_-_2018/Year_11/GCSE_Child_Development_workbook_1.pdf
	<p>Storage:</p> <ul style="list-style-type: none"> • What do computers need to store? • What is the purpose of secondary storage? 	<p>Developing ideas</p>	<p>RAINFORESTS OF THE WORLD (2/3 slides)</p> <ul style="list-style-type: none"> • What are the three main types of forest? • Where do we commonly pine the pint used in construction? 	<p>Practical session</p> <ul style="list-style-type: none"> • Take part in a live fitness session. • After the session write down how you feel both physically and mentally. • Think about how taking part in a fitness session can improve your mental health. 	<p>Water and fibre</p>	<p>Foster and adoptive family</p>

Lesson 4		https://www.bbc.co.uk/bitesize/guides/zwk82nb/revision/1	https://www.youtube.com/watch?v=rq5JKRdHg6o	https://www.thenational.academy/online-classroom/pe#subjects	https://www.bbc.co.uk/bitesize/guides/zks8jty/revision/1	https://www.crawshawacademy.org.uk/Academic_Year_2017_-_2018/Year_11/GCSE_Child_Development_workbook_1.pdf
		Responding to stimuli	WHAT DO NATURAL WOODS LOOK LIKE? (2/3 slides) <ul style="list-style-type: none"> Identify 6 natural hardwood and 6 softwoods Identify what they are commonly used for 	Practical session <ul style="list-style-type: none"> Take part in a live fitness session. Think about how taking part in sport can have a positive effect on general health and well-being. 	Food provenance	Single parent family and shared care

Week 2-Options	Computing	Art	Construction	PE	Food
Lesson 1	https://www.bbc.co.uk/bitesize/guides/zvspfcw/revision/1	https://www.bbc.co.uk/bitesize/guides/z2hp3k7/revision/1	http://www.technologystudent.com/pdf14/poster_woods2.pdf	https://www.bbc.co.uk/bitesize/guides/z9n6sg8/revision/1	https://www.bbc.co.uk/bitesize/guides/zdgvdm/revision/1
	Wired and wireless networks <ul style="list-style-type: none"> What are the 	Finding inspiration	HARDWOODS and SOFTWOODS <ul style="list-style-type: none"> Recreate the 	Cardiovascular System	Food labelling

	<p>benefits of networking computers?</p> <ul style="list-style-type: none"> • Do applications need networks? 		<p>poster showing 3 types of each</p> <ul style="list-style-type: none"> • Where does it usually come from? • What is it commonly used for? 	<ul style="list-style-type: none"> • Name the parts of the heart. • What are the three main functions of the cardiovascular system? 	
Lesson 2	https://www.bbc.co.uk/bitesize/guides/zr3yb82/revision/1	https://www.bbc.co.uk/bitesize/guides/z8pfcj6/revision/1	http://www.technologystudent.com/joints/forest3a.html	https://www.bbc.co.uk/bitesize/guides/ztkr82p/revision/1	https://www.bbc.co.uk/bitesize/guides/zgvnrbk/revision/1
	<p>Network topologies, protocols and layers:</p> <ul style="list-style-type: none"> • What are topologies? • Can topologies be different? • What is encryption? 	<p>Experimenting with materials and techniques</p>	<p>PREPARATION OF TIMBER</p> <ul style="list-style-type: none"> • How do we get from a tree in rain forest to your local DIY shop? • How is it transported and processed or shaped? 	<p>Respiratory system</p> <ul style="list-style-type: none"> • What is the respiratory system made up of? • What are the main functions of the respiratory system? 	<p>Vegetarians and vegans</p>
Lesson 3	https://www.bbc.co.uk/bitesize/guides/zj89dxx/revision/1	https://www.bbc.co.uk/bitesize/guides/z8sv97h/revision/1	http://www.technologystudent.com/joints/wdprocess1.html	https://www.thenational.academy/online-classroom/pe#subjects	https://www.bbc.co.uk/bitesize/guides/zp133k7/revision/1
	<p>System security</p> <ul style="list-style-type: none"> • What are the principles associated with networks? • What are the risks associated with using networks? 	<p>Recording and observing</p>	<p>RAW MATERIAL TO PRODUCT</p> <ul style="list-style-type: none"> • Reproduce this poster using your own images and descriptions of each stage of the process 	<p>Practical session</p> <ul style="list-style-type: none"> • Take part in a live fitness session • After the session how has your breathing changed, think 	<p>Macronutrients</p>

				about the effect it has on your respiratory system.	
Lesson 4		https://www.bbc.co.uk/bitesize/guides/zgtngd/m/revision/1	http://www.technologystudent.com/joints/timber2.html	https://www.thenational.academy/online-classroom/pe#subjects	https://www.bbc.co.uk/bitesize/guides/znngqhv/revision/1
		Annotating your work	Preparation of timber boards <ul style="list-style-type: none"> Describe how we prepare boards prior to use What materials do we need to ensure they are square and true? 	Practical session <ul style="list-style-type: none"> Before the session take your pulse and record how many times it beats in a minute. Take part in a live fitness session After the session take your pulse again, look at the different heart rate and Think about the effects this session has on your cardiovascular system 	Macronutrients

Week 3 Options	Computing	Art	Construction	PE	Food	Childcare
Lesson 1	https://www.bbc.co.uk/bitesize/guides/zmqw7p3/revision/1	https://www.bbc.co.uk/bitesize/guides/zymtv9q/revision/1	http://www.technologystudent.com/join/ts/timber4.html	https://www.bbc.co.uk/bitesize/guides/zyp6sg8/revision/1	https://www.bbc.co.uk/bitesize/guides/z7fw7p3/revision/1	https://www.crawshawacademy.org.uk/Academic_Year_2017_-_2018/Year_11/child_dev_revision_booklet.pdf
	Systems software: <ul style="list-style-type: none"> • What software controls a computer? • What software is needed to maintain a computer system? 	Analysing and evaluating	<p>VENEERS</p> <ul style="list-style-type: none"> • What are veneers and what are they used for? • How to we produce them? 	<p>Diet and nutrition</p> <ul style="list-style-type: none"> • What are the seven main food groups? • What does each food group do for my body? • In what foods will I find each food group? 	Factors affecting food choice	REVISION Pre – conceptual care
Lesson 2	https://www.bbc.co.uk/bitesize/guides/zhx26yc/revision/1	https://www.bbc.co.uk/bitesize/guides/zpcndxs/revision/1	http://www.technologystudent.com/designpro/mboard1.htm	https://www.bbc.co.uk/bitesize/guides/z367tyc/revision/1	https://www.bbc.co.uk/bitesize/guides/z23yfcw/revision/1	https://www.crawshawacademy.org.uk/Academic_Year_2017_-_2018/Year_11/child_dev_revision_booklet.pdf
	Ethical, legal, cultural and environmental	Presenting your personal intentions and response	<p>MAN MADE BOARDS</p> <ul style="list-style-type: none"> • Identify 6 man 	<p>Short term effects of exercise</p> <ul style="list-style-type: none"> • What are 	Food allergy and food intolerance	REVISION Feet to foot in the bed

	<p>concerns:</p> <ul style="list-style-type: none"> • What impacts have been attributed to computers? • Can these impacts affect people? 		<p>made boards</p> <ul style="list-style-type: none"> • Explain what they are made from • Give examples of where they are used in the construction industry 	<p>the short-term effects of exercise on the four body systems we have already studied?</p>		
Lesson 3	https://www.bbc.co.uk/bitesize/guides/z4rbcj6/revision/1	https://www.bbc.co.uk/bitesize/guides/z83g8mn/revision/1	http://www.technologystudent.com/join-ts/hardwoods1.html	https://www.thenational.academy/online-classroom/pe#subjects	https://www.bbc.co.uk/bitesize/guides/z77v3k7/revision/1	https://www.crawshawacademy.org.uk/Academic_Year_2017_-_2018/Year_11/child_dev_revision_booklet.pdf
	<p>Computational thinking:</p> <ul style="list-style-type: none"> • Although computers can solve problems, what is the first step in the process? • What do we mean by the term computational thinking? 	<p>Creating a design brief</p>	<p>HARDWOODS</p> <p>What is a hardwood? What are the common properties of hardwoods? Name 6 hardwoods and explain what they are commonly used for</p>	<p>Practical session</p> <ul style="list-style-type: none"> • Take part in a live fitness session • After the session record how your arms and legs felt when performing each exercise and as the session continued. • Think about what effect the 	<p>Food safety 1</p>	<p>REVISION</p> <p>Suitable clothing when putting a baby to bed</p>

				session has on your muscular system.		
Lesson 4		https://www.bbc.co.uk/bitesize/guides/zyv397h/revision/1	http://www.technologystudent.com/joints/softwoods1.html	https://www.thenational.academy/online-classroom/pe#subjects	https://www.bbc.co.uk/bitesize/guides/zndnsrd/revision/1	https://www.crawshawacademy.org.uk/Academic Year 2017 - 2018/Year 11/child dev revision booklet.pdf
		Analytical drawing	SOFTWOODS What is a softwood? What are the common properties of softwoods? Name 6 softwoods and explain what they are commonly used for	Practical session <ul style="list-style-type: none"> • Take part in a live fitness session. • Think back over the last three weeks and then record any differences you have noticed in your body or mood from taking part in at least two fitness sessions during the week. 	Food safety 2	REVISION Risk assessing the home to prepare for a baby

Teacher Instructions

Maths	<p>You will find a series of five maths lessons for year 10. Every lesson includes a short video showing you clearly and simply how to help your child to complete the activity successfully. If you have no way of printing these worksheets out, simply write the answers in a book or on pieces of paper. 1- Click on the set of lessons for your child's year group. 2- Watch the video with your child. 3- Find a suitable space for your child to work. Try to allow opportunities for your child to complete these questions independently. If your child is finding the work difficult, please select the year below to practise some of their skills.</p>
GCSE Science	<p>In preparation for when we all return; I have set tasks that will allow you to recap and revise the units that we have covered so far in Biology.</p> <ol style="list-style-type: none"> 1. You need to click on the SENECA website and sign up (using an email address and create a password) 2. Click on 'join a class' and enter the red code htvdtfbdzf 3. I have assigned a task for each lesson (marked with the week and lesson number) and the title matches the focus) 4. Read through the information and try the questions that accompany each section of information. (If you do not know an answer, DO NOT GUESS! Read back over the notes and try again as all the information you need is in the text.) <p>(I have used this resource with my son for his Science, Spanish and RE and it is a good resource that really helps you to recap and learn the main key facts and concepts).</p> <p>ALTERNATIVE RESOURCES: https://www.bbc.co.uk/bitesize/examspecs/zw488mn BBC bitesize also has notes as well as video clips on each of the topics I have set you on SENECA learning which I recommend that you have a look at. It also includes quizzes to test your knowledge and understanding!</p>
BTEC Science	<p>I have set work which will recap your knowledge and understanding of the Biology part of the exam unit. This will allow us then to complete our Biology coursework when we return before starting our Chemistry Unit.</p> <p>FIRST PART: Follow the link for the BBC Bitesize website and then click on the titles that I have identified in each focus box. There are video clips to watch and notes to read before trying the online quizzes and tests.</p>

	<p>SECOND PART:</p> <ol style="list-style-type: none"> 5. You need to click on the SENECA website and sign up (using an email address and create a password) 6. Click on 'join a class' and enter the red code Class code: 5puwdcaqjw 7. I have assigned a task for each lesson (marked with the week and lesson number) and the title matches the focus) 8. Read through the information and try the questions that accompany each section of information. (If you do not know an answer, DO NOT GUESS! Read back over the notes and try again as all the information you need is in the text.
Computing	<p>I have set you work which will contribute towards your examination revision unit one module.</p> <ul style="list-style-type: none"> • First Part: read, review and explore the materials and links • Second Part: watch any attached videos, this will help you to develop further understanding of some of the key points • Third Part: undertake the online test questions and screen shot your evidence and attainment score <p>Equally a quick search of any of these topics on the internet can also lead to really useful tutorial videos/guides to further support your understanding</p>
Construction	<ul style="list-style-type: none"> • Pupils to watch the video links and research the topic in greater detail, finding out key facts and information • Pupils will then produce a PowerPoint presentation with two or three slides for of each topic • Images, quotes, facts about each topic should be included in these information slides • Remember to make this resource BOLD, COLOURFUL, EYE-CATCHING and INFORMATIVE • All of this information will come in really useful when we return and complete the four remaining units next year
PE	<p>Theory lessons</p> <ul style="list-style-type: none"> • Read through each BBC Bitesize webpage, researching key information and facts. Please attempt all questions at the bottom of each page. • Pupils will produce a PowerPoint or Poster on each topic. Each PowerPoint or Poster should include the answers to the questions asked above. • Remember to include any facts about each topic, make your Poster or PowerPoint colourful and include any pictures on each topic. • All completed PowerPoints or Posters will contribute to your BTEC Module of work and can be

	<p>submitted as part of your coursework.</p> <ul style="list-style-type: none">• Equally a quick search of any of these topics on the internet will also be helpful when producing a PowerPoint or Poster. <p>Practical lessons</p> <ul style="list-style-type: none">• Lessons 3&4 of the week pupils will participate in a live fitness session.
Childcare	<ol style="list-style-type: none">1. Log on to the website and have a look through the three different Child Care booklets on there2. I have broken the booklets down into lesson length activities, for the four lessons you would have in a week3. Research the topics using the booklets and the internet then produce a PowerPoint containing information about each topic