

Year 10 Spring Term (Christmas to Easter):

Art	Food and Nutrition	Product Design: Resistant Materials
Business Studies	French	Product Design: Textiles
Child Development	Geography	RE
Computer Science	History	Science – Chemistry
Core Enrichment	Maths	Science – Physics
Core PE	Media Studies	Science Biology
Drama	Music	Spanish
English – Language	PE	SPIRIT
English - Literature	Product Design: Graphic Products	
Engineering		

What will your child know, understand, or know how to do?	Home learning/how parents can help?
Maths:	
<p>Rounding</p> <ul style="list-style-type: none"> • Round numbers and measures to an appropriate degree of accuracy (e.g. to a specified number of decimal places or significant figures) • Use inequality notation to specify simple error intervals due to truncation or rounding • Apply and interpret limits of accuracy including upper and lower bounds <p>Perimeter and Area</p> <ul style="list-style-type: none"> • Identify properties of the faces, surfaces, edges and vertices of: cubes, cuboids, prisms, cylinders, pyramids, cones and spheres • Calculate the perimeter of a 2D shapes and composite shapes • Find the surface area of pyramids composite shapes • Know and apply formulae to calculate area of: <ul style="list-style-type: none"> ○ triangles ○ parallelograms ○ trapezia <p>Circumference and Area</p>	<p>The Exam Board is AQA Maths (8300) These are three papers in the final examinations, each 90 minutes. Paper 1 is non-calculator and paper 2 and 3 are calculator papers.</p> <p>Please encourage your child to complete their homework as soon as they get it so that they can ask for help if needed. All homework is set on Sparx Maths on Wednesdays.</p> <p>Revision lists are sent out prior to assessments via parent mail. Encouraging the use of Sparx Maths, exercise books and revision guides to revise prior to the assessments.</p> <p>Please ensure that your child has their own scientific calculator and that they bring their exercise book and equipment to school.</p>

- Identify and apply circle definitions and properties, including: centre, radius, chord, diameter, circumference, tangent, arc, sector and segment,
- Know and use the formulae for circumference and area of a circle
- Calculate the perimeters of 2D shapes including circles and composite shapes
- Calculate areas of circles and composite shapes
- Calculate surface area of spheres, cones and composite solids
- Calculate arc lengths, angles and areas of sectors of circles

Equations Review

- Substitute numerical values into formulae and expressions, including scientific formulae
- Solve linear equations in one unknown algebraically including those with the unknown on both sides of the equation

Coordinates and Linear Graphs

- Work with co-ordinates in all four quadrants, ,
- Solve geometrical problems on co-ordinate axes,
- Plot graphs of equations that correspond to straight line graphs in the co-ordinate plane
- Identify parallel lines and perpendicular lines
- Find the equation of the line through two given points, or through one point with a given gradient,
- Identify and interpret gradients and intercepts of linear functions graphically and algebraically,

Inequalities

- Solve linear inequalities in one or two variables and quadratic inequalities in one variable
- Represent the solution set on a number line, using set notation and on a graph

Growth and Decay

<ul style="list-style-type: none"> • Set up, solve and interpret the answers in growth and decay problems, including compound interest 	
<p>Science: Biology:</p>	
<p>Homeostasis and Response:</p> <p>To know how the internal conditions are maintained for enzyme action and cell function. Students will know how different internal systems are regulated, including the nervous system, hormonal control, water balance and kidney function, blood glucose levels and body temperature.</p>	<p>Exam information Exam Board: AQA</p> <p>Number of exam papers: 6 in total (2 for each discipline) Triple Award: each paper is 1hr 45minutes long Combined Trilogy: each paper is 1 hr 15 minutes long</p> <p>The course is split into paper 1 and paper 2 units Required practical's are examined within the exam papers, students are encouraged to remind themselves about the practical's they have completed. The following link has free videos covering the required practical and knowledge for the course.</p>
<p>Science: Chemistry</p>	
<p>Energy changes:</p> <p>To know the terms exothermic and endothermic.</p> <p>To know how to draw and label an energy level diagram for both exothermic and endothermic reactions.</p> <p>To know how bond energies are used to calculate the overall energy change within a reaction and to investigate the impact this has on the conditions.</p>	<p>https://www.freesciencelessons.co.uk/videos/</p> <p>How can I help my child to prepare for the exams? The following topics have already been covered in lessons, students need to test their knowledge by using retrieval strategies learnt in the classroom. These strategies include using exam questions to check knowledge recall and using flashcards with questions/answers on.</p>
<p>Science: Physics</p>	
<p>Forces:</p> <p>To know the difference between contact and non-contact forces, including examples.</p>	<p>Biology: Organisation, Infection and Response, Cells and Bioenergetics.</p>

To know when a force causes an object to move through a distance, work is done on the object.

To know that Work done against the frictional forces acting on an object causes a rise in the temperature of the object.

Chemistry: Atomic structure & Periodic Table, Structure and Bonding, Chemical changes and Quantitative

Physics: Energy, Particle Model of Matter, Electricity and Atomic structure & Radiation

Resources available to use at home

1. <https://www.physicsandmathstutor.com/>

This free website has signposted revision maps and lots of exam questions to help students to prepare for the examinations. Exam board for Science is AQA.

2. BBC bitesize is good for revising and testing knowledge through self-marking multiple choice questions.

Combined trilogy-

<https://www.bbc.co.uk/bitesize/examspecs/z8r997h>

Triple Biology-

<https://www.bbc.co.uk/bitesize/examspecs/zpgcbkz>

Triple Chemistry-

<https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb>

Triple Physics-

<https://www.bbc.co.uk/bitesize/examspecs/zsc9rdm>

English:

Language –

Language:

Students complete their NEA Spoken Language assessment this half term, writing a persuasive or informative speech and presenting this to the class.

Students can choose any topic for their presentation and must be able to talk about it for 3 minutes before answering questions from the class.

In lessons, we will be working on presentation skills, as well as persuasive language devices and how to craft an effective speech.

Literature:

Students will be spending this term studying Robert Louis Stevenson's *The Strange Case of Dr Jekyll and Mr Hyde*. They will be reading the novella in class, analysing the language, plot, character and themes, as well as applying knowledge of Victorian London to their understanding of the text as a whole.

How can I help my child?

Language: Students will be required to rehearse their speech at home and having a live audience of family members will help to prepare them for their assessment.

Literature: Students will be set regular homework tasks on "The Strange Case of Dr Jekyll and Mr Hyde" through GCSE Pod. Watching the videos with your child, asking questions and quizzing them on the content will be helpful.

<https://www.gcsepod.com/>

Students can also explore BBC Bitesize for revision materials on *The Strange Case of Dr Jekyll and Mr Hyde*

<https://www.bbc.co.uk/bitesize/topics/z8642p3>

Students can make flashcards, mind maps or other revision resources using the links to GCSE Pod, BBC Bitesize, and the revision booklet link below:

<https://riddlesdown.org/wp-content/uploads/2020/01/English-Literature-Revision-Pack.pdf>

Literature –

Languages:

Spanish

AQA - Spanish GCSE (Foundation or Higher)

- To know how to talk about family members in Spanish
- To know how to use a range of adjectives to describe people in Spanish
- To know how to talk about free time activities including social media and reading in Spanish
- To know how to give opinions of free time activities in Spanish
- To know how to talk about sports in Spanish
- To know how to talk about what you used to do when you were younger
- To know how to talk about films in Spanish
- To know how to talk about celebrities and role models in Spanish
- To know how to form the present tense
- To know how to talk about the past
- To know how to refer to future plans

French

AQA - French GCSE (Foundation or Higher)

- To know how to say school subjects in French
- To know how to talk about the school day in French
- To know how to describe teachers in French
- To know how to give opinions of school rules in French
- To know how to talk about where you live in French
- To know how to describe a town and region in French
- To know how to give the pros and cons of living somewhere in French
- To know how to discuss weather and weekend plans in French
- To know how to talk about an ideal town
- To know how to form the present tense
- To know how to form the perfect tense
- To know how to refer to the future

German

AQA - German GCSE (Foundation or Higher)

- To know how to say where you go on holiday and what you do there
- To know how to discuss ways of travelling
- To know how to talk about where you stay on holiday
- To know how to give directions
- To know how to give advantages and disadvantages of where you go on holiday

Home learning:

- Vocab homework set every week
- One other homework set every two weeks (this could be reading, translation, writing, Active Learn, revision etc)

How parents can help with vocab:

- Test your child on the weekly vocab
- Encourage your child to use the 'look, cover, say, write, check' method to learn vocab
- Make flashcards of key vocab with your child

How parents can help with prep for speaking and writing exams:

- Ensure your child has speaking questions written on flashcards (question on one side, answer on the other)
- Test your child by asking the question, and he/she gives the answer
- Add a new question each week, so your child builds up a bank of Q&As

How parents can help with prep for all exams:

- Work through the different skill areas with your child:

Spanish:

<https://www.bbc.co.uk/bitesize/examspecs/z4yyjh>

French:

<https://www.bbc.co.uk/bitesize/examspecs/zr8bmf>

German:

<https://www.bbc.co.uk/bitesize/subjects/z8j2tfr>

- To describe your house and where you live
- To talk about a typical day
- To talk about how you stay fit and healthy
- To know how to form the present tense
- To know how to form the perfect tense
- To know how to refer to the future

History:

Paper -

Exam information:

- **Exam Board:** Edexcel
- **Number of exam papers:** 3 in total
- **The course is split into:** Paper 1 - Crime and Punishment & Whitechapel (1hr 15 mins), Paper 2 – Early Elizabethan England and Cold War (1hr 45mins) and Paper 3 – Weimar and Nazi Germany (1hr 20mins).

Home learning:

- Students will be set regular homework every fortnight to test understanding, including preparing for knowledge tests, exam questions, GCSE Pod videos.

How can I help my child to prepare for the exams?

- Producing revision materials to summarise content learnt in lessons would be an extremely useful tool for students studying History e.g. making spider diagrams for each time period, timelines or cue cards to help remember facts and key terminology.
- Use of revision checklist to organise notes in lessons and revision materials.
- Use of revision padlet below contains useful resources to support your child with their revision.
- Use of revision websites likes GCSE Pod and Seneca are extremely useful for testing knowledge. The more quiz questions your child can complete the better!

Useful websites:

- Revision padlet for Crime and Punishment, which contains revision checklist, past papers, knowledge organisers, helpful videos etc.

	<p>https://padlet.com/dbaskerville/kes3gw5mj91ndlf8</p> <ul style="list-style-type: none"> • GCSE Pod - https://www.gcsepod.com/ • A long long time ago (simple revision videos) - https://www.youtube.com/watch?v=IRf-tkRitLc&list=PLK-VUBYiIMe9dQjLrini0BvdhBWSMm5qw
<p>Geography:</p>	
	<p>Each week students will be set a homework task to complete. In order to help students to develop their depth of knowledge please encourage them to watch the news or listen to podcasts about current events in the world.</p> <p>To support understanding of key areas the following website would be useful. This is specific to the Edexcel specification.</p> <p>https://www.bbc.co.uk/bitesize/topics/zs93ycw</p>
<p>RE:</p>	
<p><u>Religion, Peace and Conflict</u></p> <p>To know what is meant by peace, forgiveness, justice and reconciliation</p> <p>To know what is meant by terrorism and be able to refer to case studies of terrorism from history</p> <p>To know Christian and Muslim views on terrorism</p> <p>To know the conditions of just war theory and apply these to wars from History</p> <p>To know what is meant by Holy War</p> <p>To know Christian and Muslim views on Holy War and be able to refer to example of Holy War from History</p> <p>To know different types of weapons on mass destruction</p> <p>To know what is meant by nuclear deterrent and know Christian views on having and using nuclear weapons</p> <p>To know what is meant by pacifism and peacekeeping</p> <p>To know arguments for and against pacifism</p>	<p>Students will be set homework once a fortnight. This will be a research task using bbc bitesize or GCSE pod revision.</p> <p>https://www.bbc.co.uk/bitesize/guides/zvs3d2p/revision/1</p> <p>In order to support students please encourage them to discuss current affairs and watch the news as many stories involve war and conflict and can be used as case studies in their work.</p> <p>Debates and discussions at home is a great way to develop students' depth of understanding and enable them to develop their worldview.</p> <p>Students can access past exam papers on the AQA website:</p> <p>https://www.aqa.org.uk/subjects/religious-studies/gcse/religious-studies-a-8062/assessment-resources</p>

To know how Christians help victims of war.	
Core PE	
	Encouraging pupils to participate in regular exercise, individually or through a club
SPIRIT:	
	<p>Below is a link to and NHS resource with advice for parents about talking to their children about relationships and sex.</p> <p>https://www.nhs.uk/Livewell/Talkingaboutsex/Documents/DCSFtalktoyourchild.pdf</p>
Engineering:	
OCR Cambridge National Engineering Design	<p>Home learning:</p> <p>Pupils will be set online revision tasks and questions using GCSE POD.</p> <p>Pupils will be given knowledge organisers to revise for class tests.</p> <p>How you can help:</p> <p>You can support your child by encouraging them to log onto the GCSE Pod and complete the fortnightly tasks.</p> <p>Ask them to show you their engineering knowledge organiser and encourage them to make flashcards and mind maps to revise the content.</p> <p>You could also encourage them to sketch products in your home to practice their 2D and 3D drawing skills.</p>
Business Studies:	
<p>Edexcel Business 9-1</p> <p>To know how firms make marketing decisions (Theme 2.2)</p> <p>Product</p> <ul style="list-style-type: none"> the design mix the product life cycle differentiating a product or service. <p>Price</p> <ul style="list-style-type: none"> pricing strategies influences on pricing strategies: technology, competition, market segments, product life cycle. 	<p>Home Learning</p> <p>Create key terms sheets and flashcards to review essential definitions.</p> <p>BBC BITESIZE has the essential notes for external influences that can help with the above:</p> <p>https://www.bbc.co.uk/bitesize/topics/z6rfpg8</p> <p>How can you help?</p> <p>Test your child on their key term knowledge using their flash cards.</p>

Place

- methods of distribution: retailers and e-tailers (e-commerce).

Promotion

- appropriate promotion strategies for different market segments: advertising, sponsorship, product trials, special offers, branding
- the use of technology in promotion: targeted advertising online, viral advertising via social media, e-newsletters

How each element of the marketing mix can influence other elements.

- Using the marketing mix to build competitive advantage.
- How an integrated marketing mix can influence competitive advantage.

Computer Science:

Edexcel – GCSE Computer Science:

Home Learning

This will be split between practical coding tasks for the computational thinking aspect of the course and theory based questions for the principles of computer science. There will also be regular key word definition tests.

How can you help?

For the coding tasks remind students that the solutions do not need to be 100% correct to be worth marks and that the idea is to practise and embed coding techniques

What resources are available?

BBC bitesize -

<https://www.bbc.co.uk/bitesize/subjects/z34k7ty>

Isaaccomputing

<https://isaacomputerscience.org/topics/gcse?examBoard=all&stage=all#edexcel>

Youtube channel craigdave -

https://www.youtube.com/c/craigdave/playlists?view=50&sort=dd&shelf_id=4

Memrise – all our keywords have been added and they are part of a class with access to these

	<p>Seneca - https://app.senecalearning.com/classroom/course/445cea6a-0ae2-4d28-8aca-eb7fa09e3366</p>
<p>Art:</p>	
<p>AQA - Art, Craft & Design.</p> <p>RECORDING FROM OWN PHOTOGRAPHS To know how to record from primary source SKULL photographs.</p> <p>To develop knowledge of expressive mark-making techniques and understand how to apply these inspired by researched artists.</p> <p>Know how to generate ideas to address AO3.</p> <p>Knowledge of mixed media painters Kurt Jackson and Janine Baldwin.</p> <p>DIGITAL MEDIA Develop knowledge of digital media processes – be able to record digitally using an iPad, drawing tablet, PowerPoint or photoshop from primary sources.</p> <p>Develop knowledge of double-exposure techniques in photography inspired by Danielle Zalcman, Lilach Elbaum and Stephanie Jung.</p>	<p>Home Learning:</p> <p>Students will be set a variety of drawing tasks from their own skull photography to increase their proficiency in control of paint, graphite and graded pencils.</p> <p>Students will be asked to record their ideas, observations and independent judgements through written annotations. Please support and encourage conversations about their own and others artwork with your child using subject specialist vocabulary.</p>
<p>Drama:</p>	
	<p>Home Learning:</p> <p>To create mood boards of the outfits worn in the 1980s in preparation for the costume question within the written exam.</p> <p>How can you help? With your child, watch the videos via GCSEpod which discuss key themes, plot summary, quotes and character overviews. https://members.gcsepod.com/shared/podcasts/tittle/11765/72599</p>
<p>Music:</p>	
	<p>Home Learning:</p> <p>Students will be assigned extended learning through Focus On Sound (Microsoft Teams)</p> <p>How can you help? Ensure students complete 20 mins of instrumental practise 4 times per week.</p>

PE GCSE:	
AQA GCSE PE	<p>Home learning</p> <p>To apply their knowledge through a range of multiple choice, short and long exam questions</p> <p>How can you help?</p> <p>Encourage your child to participate in a sports club</p> <p>Quiz your child on the key knowledge vocabulary and definitions, using their cue cards</p>
PE OCR Cambridge National Level 2:	
	<p>Home learning:</p> <p>Students to create some flash revision cards for exam unit on key terminology</p> <p>Students to complete a variety of exam style questions</p> <p>Students to complete assignment write up tasks</p>
AQA Food Preparation and Nutrition:	
<p><u>Food provenance –</u></p> <p>Environmental impact and sustainability of food</p> <p>Where and how ingredients are grown, reared and caught.</p> <p>Grown ingredients: fruits, vegetables and cereals</p> <p><u>Food and the environment –</u></p> <p>Environmental issues associated with food.</p> <ul style="list-style-type: none"> • seasonal foods • sustainability eg fish farming • transportation • organic foods • the reasons for buying locally produced food • food waste in the home/food production/retailers • environment issues related to packaging • carbon footprint. <p><u>Sustainability of food –</u></p> <p>The impact of food and food security on local and global markets and communities.</p> <p>The challenges to provide the world’s growing population with a sustainable, secure, supply of safe, nutritious and affordable high quality food.</p>	<p>Home Learning:</p> <p>Completing a variety of past paper questions, linking to each topic we have covered.</p> <p>Article homework’s based on farming methods and GM foods. Investigating current topics linked to the environment such as sustainability and food security.</p> <p>How can you help?</p> <p>Test your child on their knowledge from each topic area.</p> <p>Encourage your child to cook at home and to further stretch their practical skills.</p>

<p><u>Food processing and production –</u></p> <ul style="list-style-type: none"> • Primary and secondary stages of processing and production • How processing affects the sensory and nutritional properties of ingredients. 	
<p>Edexcel GCSE Design Technology(Textiles):</p>	
	<p>Home learning: Your child will be given knowledge organisers to revise from in order to prepare for class tests.</p> <p>How you can help: Please encourage your child to read their knowledge organiser. You could help them to make flashcards and mind maps to help the content of their knowledge organiser</p> <p>You could also discuss different textile items in your home. Ask your child what the fabric is and to explain why it is made from this.</p>
<p>Edexcel GCSE Design Technology (Graphics):</p>	
	<p>Home learning: Your child will be given knowledge organisers to revise from in order to prepare for class tests.</p> <p>How you can help: Please encourage your child to read their knowledge organiser. You could help them to make flashcards and mind maps to help the content of their knowledge organiser</p> <p>Revision link to BBC Bitesize https://www.bbc.co.uk/bitesize/guides/zjq8jty/revision/1</p> <p>You could also discuss different items in your home. Ask your child what the material is and to explain why it is made from this.</p>
<p>Edexcel GCSE Design technology (Tech RM):</p>	
	<p>Home learning: Your child will be given knowledge organisers to revise from in order to prepare for class tests.</p> <p>How you can help: Please encourage your child to read their knowledge organiser. You could help them to make flashcards and mind maps to help the content of their knowledge organiser</p>

	<p>You could also discuss different items in your home. Ask your child what the material is and to explain why it is made from this.</p>
<p>OCR Cambridge National Level 1/2 Child Development:</p>	
	<p><u>RO58: (coursework)</u> This includes 4 tasks which needs completing for submission Jan 2023. Students will be encouraged to complete work at home.</p> <p>Research three pieces of the same equipment type for one of the following purposes at the nursery, as given in the current assignment brief. For each piece of equipment, explain suitability by considering the factors as given in the current assignment brief. Choose the piece of equipment you consider is the most suitable. Evaluate their choice. Say why they have chosen it and rejected the others.</p> <p>Design an area layout for the nursery that is age appropriate as given in the current assignment brief. Explain what types of potential accidents that can occur lining it to your plan. Explain why accidents can happen in a childcare setting. Consider prevention of potential accidents from happening in the area designed. Justify why their design creates a safe environment.</p> <p>Compare milk formulas for babies as given in the current assignment brief and describe how each formula meets the nutritional needs of babies aged 0–6 months. Recommend a two-course meal for serving as given in the current assignment brief. Describe how their meal choice meets the nutritional needs of a child of an age as given in the current assignment brief. Explain how their meal choice meets the Government dietary recommendations.</p> <p>Produce a plan for preparing a bottle feed including: equipment, ingredients and quantities, safety, hygiene and make the bottle. Evaluate their own performance, considering: strengths and weaknesses of planning and preparation and make suggestions for improvements and/or changes.</p>

<p>Core Enrichment:</p>	
<p>Core Enrichment students will start their different pathways this half term.</p> <p>Students attending Reaseheath College every Wednesday will begin their 2-year course on the 14-16 vocational programme, studying their chosen subject. This will be alongside their normal studies in school with additional periods for RE and English.</p> <p>Students who will be participating on a work placement programme this year will start working with our Vocational Learning Co-ordinator on Health and Safety and Employability skills required in the workplace supported in the transition to begin their allocated work placement out of school every Wednesday. This will be alongside their normal studies in school with additional periods for RS and English.</p>	
<p>Media Studies</p>	
	<p><u>How can I help my child?</u></p> <p>We recommend the AQA accompanying revision guide – the revised edition for 2023. This covers many of the key codes and conventions.</p> <p>Students can also access lessons and resources on TEAMS. There are links to the key texts we study and it is a good idea to discuss and review the key ideas and understanding that students have.</p> <p>We also recommend Mrs Fisher Media studies revision videos on You tube as they present information in an informative and effective way to support GCSE Exam knowledge. https://www.youtube.com/channel/UCUKrxp4BcJrGLzmqAhCjASg</p> <p>Students can access tasks on GCSE Pod linked to creative media whilst this is not linked to our exam board it does provide an extra level of understanding for the key media concepts of Language, audience, representation and industry. Watching videos with your child and then discussing or quizzing them on the content of the videos will help them to retain key information. https://www.gcsepod.com/</p> <p>BBC Bitesize has a dedicated area for GCSE Media Studies:</p>

<https://www.bbc.co.uk/bitesize/subjects/ztnygk7>

Students can complete the revision tasks on the website or make revision cards and resources with the content.