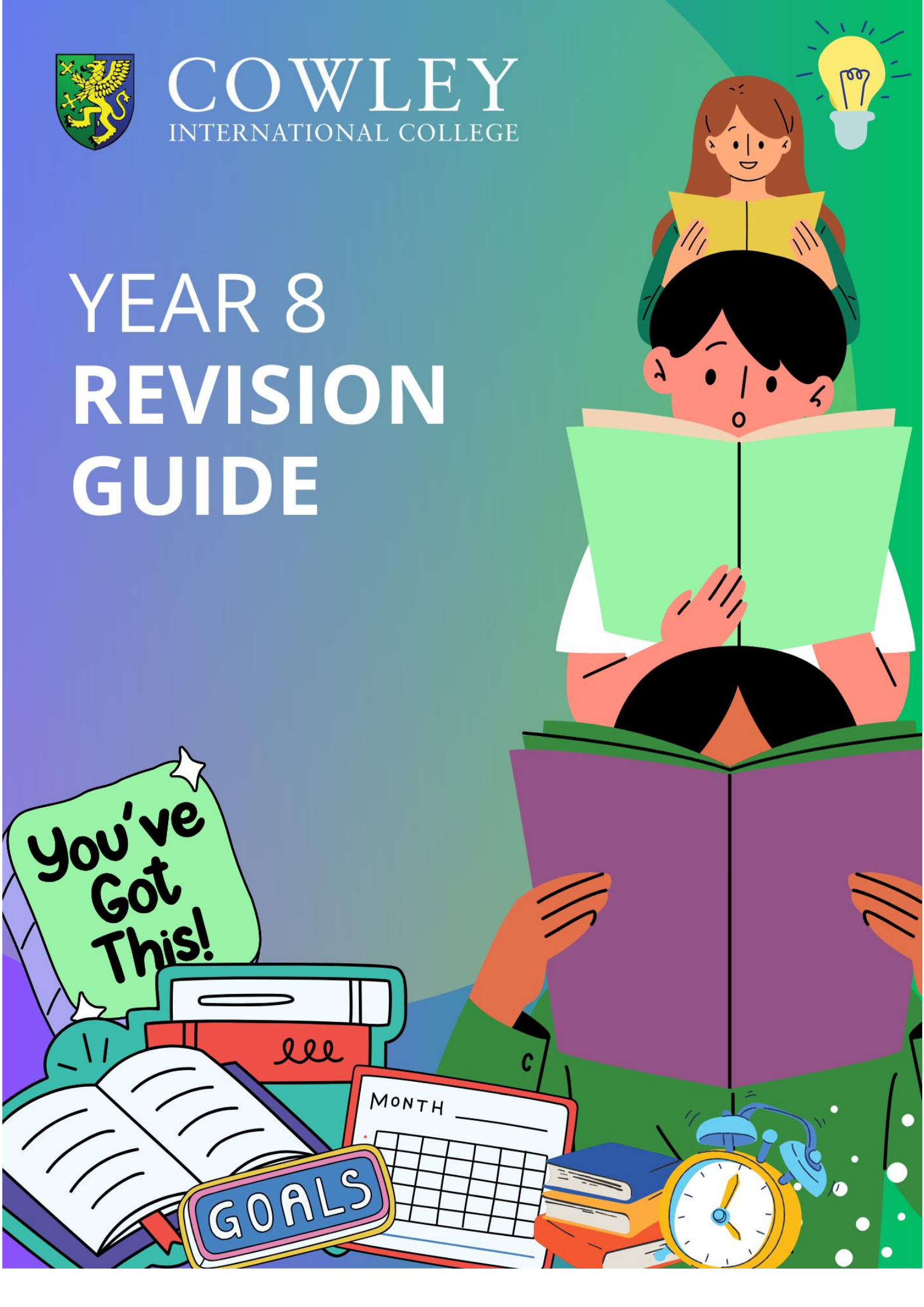




COWLEY
INTERNATIONAL COLLEGE

YEAR 8 REVISION GUIDE



Year 8 Revision Guide

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English

| | Activity/ link | Completed? |
|---|--|------------|
| 1 | <p>Revise the words on the Y8 <u>academic vocabulary</u> list https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Year-8-Academic-Vocabulary-List.docx</p> <p>Create a flashcard for each word (write the word on the front, and on the back write the definition and use the word in a sentence of your own).</p> | |
| 2 | <p>Revise the words on the Y8 <u>aspirational vocabulary</u> list: https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Year-8-Aspirational-Vocabulary-List.docx Write the correct definition next to each word and practise using the vocabulary in your own sentences. Ask someone to test you on the definitions.</p> | |
| 3 | <p>Complete the practice reading paper: https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Y8-Practice-Reading-Test.docx</p> | |
| 4 | <p>Read the information about the writing exam: https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Year-8-Narrative-Writing-Exam.docx</p> <p>Learn Freytag's Pyramid narrative writing structure and create a revision poster summarising the key information.</p> | |
| 5 | <p>Narrative writing: Writing Skills - Creative and narrative writing - BBC Bitesize. Read the information and use it to write an A4 page of revision notes.</p> | |
| 6 | <p>Literary Devices: How to use literary devices in your writing for KS3 English students - BBC Bitesize. Read the information, watch the videos and take the quizzes.</p> | |
| 7 | <p>Using Freytag's Pyramid practise planning and answering these narrative writing questions: .</p> <ul style="list-style-type: none"> • <i>The Day Everything Changed</i> • <i>The Door at the End of the Corridor</i> • <i>Trapped</i> | |

Maths

| | Activity/Link | Completed |
|---|---|-----------|
| 1 | <p>Ratio Understanding multiplicative relationships: fractions and ratio KS3 Y7 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 2 | <p>Proportion and Scale Understanding multiplicative relationships: percentages and proportionality KS3 Y8 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 3 | <p>Algebraic Manipulation Expressions and equations KS3 Y7 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 4 | <p>Coordinates and Graphs Plotting coordinates KS3 Y7 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 5 | <p>Multiply and Divide Fractions Plotting coordinates KS3 Y7 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 6 | <p>Symmetry and Reflection Transformations KS3 Y7 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 7 | <p>Area, Volume and Density Perimeter and area KS3 Y7 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 8 | <p>Equations and Inequalities Solving linear equations KS3 Y8 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 9 | <p>Percentages Understanding multiplicative relationships: percentages and proportionality KS3 Y8 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |

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|----|---|--|
| 10 | <p>Indices Arithmetic procedures: index laws KS4 Y10 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 11 | <p>Standard Form Standard form KS3 Y9 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 12 | <p>Interpret and Represent Data Graphical representations of data KS3 Y8 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 13 | <p>Angles in Parallel Lines and Polygons Geometrical properties: polygons KS3 Y8 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 14 | <p>Tables and Probability Probability: possible outcomes KS3 Y9 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 15 | <p>Circles Perimeter, area and volume KS3 Y8 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 16 | <p>Graphs and Charts Graphical representations of data KS3 Y8 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |
| 17 | <p>Sequences Sequences KS3 Y8 Maths Lesson Resources Oak National Academy Complete the starter and exit quiz for each section. Watch the video lesson and copy the examples for any objectives that you are unable to answer, then retest yourself.</p> | |

| | Activity/ link | Completed? |
|---|--|------------|
| 1 | <p>https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Y8BiologyRevisionSheets.docx</p> <p>What is photosynthesis? - Respiration and gas exchange - KS3 Biology - BBC Bitesize</p> <p>Read the information on the B8a revision sheet (biological processes) and watch the videos on the web page about photosynthesis.</p> <p>Learn the word equation: carbon dioxide + water --> glucose + oxygen.</p> <p>On a piece of paper or flashcard, write down a brief summary of the 4 uses of glucose in plants, which you can find at the bottom of the webpage.</p> | |
| 2 | <p>https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Y8BiologyRevisionSheets.docx</p> <p>What are causes of variation? - BBC Bitesize</p> <p>Read the information on the webpage and the B8b (genetics and evolution) revision sheet. and watch the video about the different causes of variation. On paper or a flashcard, make a summary table about the differences between genetic and environmental variation.</p> | |
| 3 | <p>How to Make an Electromagnet - Science Experiment</p> <p>Watch the video about how to make an electromagnet.</p> <p>Write a step by step list of instructions that another student could follow, explaining to them how they could make an electromagnet.</p> | |
| 4 | <p>https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Y8PhysicsRevisionSheets.docx</p> <p>Sound: Wavelength, Frequency and Amplitude.</p> <p>Watch the video about sound and read the information about sound waves from your P8a (waves) revision sheet. Draw and label a sound wave and learn the key terms. Make sure you know how the appearance of a wave changes when the frequency or amplitude changes.</p> | |
| 5 | <p>https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Y8ChemistryRevisionSheets.docx</p> <p>What is a displacement reaction? - BBC Bitesize</p> <p>Watch the video on the web page about displacement reactions and read the information on your C8a (chemical reactions) revision sheet. Write a sentence to explain why magnesium will react with copper sulphate, but copper will not react with magnesium sulphate.</p> | |
| 6 | <p>https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Y8ChemistryRevisionSheets.docx</p> <p>Composites - Materials - KS3 Chemistry - BBC Bitesize</p> <p>Read the information on your C8b (materials) revision sheet and watch the video on the webpage. Copy down the "key points" from the top of the web page onto a flashcard and memorise them.</p> | |
| 7 | <p>https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Y8PhysicsRevisionSheets.docx</p> <p>Electric current and potential difference guide for KS3 physics students - BBC Bitesize</p> <p>Read the information about electricity on the web page and on your P8b (electricity) revision sheet. Use the information to find the meanings of the words: current, potential difference, ammeter, voltmeter, resistance, conductor and insulator. Write down the key words and memorise them.</p> | |
| 8 | <p>https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Y8BiologyRevisionSheets.docx</p> <p>What is the difference between aerobic and anaerobic respiration? - BBC Bitesize</p> <p>Read the information on the B8a revision sheet about respiration information on respiration. Write down the "key points" from the box at the top of the page. Learn the word equation for aerobic respiration: glucose + oxygen → carbon dioxide + water</p> <p>Response to exercise - Respiration - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize</p> | |

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| | Read the information. On paper or a flashcard, write down the changes that happen to the body during exercise. Explain why each of these changes takes place. | |
| 9 | https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/PracticeBiologyandChemistryQuestions.docx Complete the first set of practice exam questions, covering biology and chemistry topics. Mark your answers using the mark scheme at the back of the paper. | |
| 10 | https://www.cowley.st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/PracticePhysicsQuestions-1.docx Complete the second set of practice exam questions, covering physics topics. Mark your answers using the mark scheme at the back of the paper. | |

Geography

| | Activity/ link | Completed? |
|----|---|------------|
| 1 | Read your knowledge organiser. Create flash cards for all the key terms for all topics. | |
| 2 | Read your knowledge organiser on 'The Yorkshire Dales'. Draw an annotated diagram to show freeze thaw weathering. Ask someone to test you on this. | |
| 3 | What is a limestone landscape? - BBC Bitesize Read the information and watch the clips. Complete the quiz. Draw a labelled diagram of a cave, stalactite and stalagmite and explain how they are formed. | |
| 4 | The rock cycle - The Earth and atmosphere - KS3 Chemistry - BBC Bitesize Watch the video and use your flash cards, draw the rock cycle and describe processes involved at each stage. | |
| 5 | Glacial process guide for KS3 geography students - BBC Bitesize Watch the video and write a definition for a glacier. | |
| 6 | Glacial landforms guide for KS3 geography students - BBC Bitesize Create labelled diagrams to explain the formation of a corrie. | |
| 7 | Tropical rainforests guide for KS3 geography students - BBC Bitesize Read through the information, watch the clips, and complete the quiz. | |
| 8 | Read the tropical rainforest knowledge organiser. Create a table to show the advantages and disadvantages of deforestation. | |
| 9 | Population - KS3 Geography - BBC Bitesize Read the section "How do countries manage their population growth?" create a mind map to show the key points (including advantages and disadvantages) of the One Child Policy. Use the "Population" knowledge organiser to add further detail. | |
| 10 | Use the "Population" knowledge organiser, draw a picture to show three push factors and three pull factors. | |

History

| | Activity/ link | Completed? |
|----|---|------------|
| 1 | King John and the Magna Carta - The Magna Carta - KS3 History - homework help for year 7, 8 and 9. - BBC Bitesize follow the link and read through the information. Once completed try the quiz at the bottom of the page to test your knowledge. | |
| 2 | Who were the claimants to the throne in 1066? (1/6) History – The Norman Conquest Watch the following video playlist- each video is around 6 minutes long. For each video make notes on who, what, where, when and why. | |
| 3 | The Wars of the Roses - KS3 History - BBC Bitesize follow the link and read through the information. Once completed try the quiz at the bottom of the page to test your knowledge. | |
| 4 | What was the Triangular Trade? - BBC Bitesize follow the link and read through the information. Once completed try the quiz at the bottom of the page to test your knowledge. | |
| 5 | Who was Henry VIII? - The Tudors - KS3 History - homework help for year 7, 8 and 9. - BBC Bitesize follow the link and read through the information. Once completed try the quiz at the bottom of the page to test your knowledge. | |
| 6 | Elizabethan rule - The Tudors - KS3 History - homework help for year 7, 8 and 9. - BBC Bitesize follow the link and read through the information. Once completed try the quiz at the bottom of the page to test your knowledge. | |
| 7 | KS3 / GCSE History: The French Revolution - BBC Teach follow the link and read through the information. Once completed try the quiz at the bottom of the page to test your knowledge. | |
| 8 | The Reformation and its impact - The Tudors - KS3 History - homework help for year 7, 8 and 9. - BBC Bitesize follow the link and read through the information. Once completed try the quiz at the bottom of the page to test your knowledge. | |
| 9 | Use your exercise/class books to read through the lessons on Abolition. Make notes under the heading's rebellion/economic and key individuals for why the Slave trade was abolished. | |
| 10 | Create flash cards based on the revision materials you can see above. Write both a question and an answer on these and have someone else test you. Create a pile of any answers you get wrong and focus your revision on these topics moving forwards. | |

Languages

<https://www.cowley-st-helens.sch.uk/wp-content/uploads/sites/2/2025/05/Yr-8-German-Revision.pptx>

| | Activity/ link | Completed? |
|---|---|------------|
| 1 | Word order - KS3 German - BBC Bitesize Watch the video and read the information on word order. Then complete test | |
| 2 | Perfect tense - KS3 German - BBC Bitesize Watch the video and read the information on past tense. Then complete quiz | |
| 3 | The verb 'to be' - KS3 German - BBC Bitesize Watch the video and read the information on the verb "to be." Then complete quiz | |
| 4 | The verb 'to have' - KS3 German - BBC Bitesize Watch the video and read the information on the verb "to have. "Then complete quiz | |
| 5 | Revise the vocab from sentence builder on PowerPoint Slide 2&3 on School. Can you describe your teachers? Can you talk about your school subjects? | |
| 6 | Revise the vocab from sentence builder on PowerPoint Slide 4 on your area. Can you describe St Helens? Can you talk about what there is and isn't in St Helens? | |
| 7 | Revise the vocab from sentence builder on PowerPoint Slide 6 & 7 on Food and Healthy living. | |
| 8 | Slide 10/12/14 – complete grammar activities in each section on the slides – based on school topic/ town topic and healthy lifestyle topic | |
| 9 | Revise key vocab from slides 11/13/15 - based on the school, town and healthy lifestyle topics | |

Computing

| | Activity/ link | Completed? |
|----|---|------------|
| 1 | Microbits. https://makecode.microbit.org Use Block Editor to program animations Play the Video Lesson on 'Name Tag' Complete the Block Tutorial | |
| 2 | Microbits. https://makecode.microbit.org Use Block Editor to program animations Play the Video Lesson on 'Flashing Heart' Complete the Block Tutorial | |
| 3 | Microbits. https://makecode.microbit.org Use Block Editor to program animations Play the Video Lesson on 'Smiley Buttons' Complete the Block Tutorial | |
| 4 | Further Spreadsheets. Making a basic spreadsheet Revision https://www.bbc.co.uk/bitesize/guides/zdydmp3/revision/2 Test https://www.bbc.co.uk/bitesize/guides/zdydmp3/test | |
| 5 | Further Spreadsheets. Formatting Revision https://www.bbc.co.uk/bitesize/guides/zdydmp3/revision/3 Test https://www.bbc.co.uk/bitesize/guides/zdydmp3/test | |
| 6 | Further Spreadsheets. Adding Formatting Revision https://www.bbc.co.uk/bitesize/guides/zdydmp3/revision/4 Test https://www.bbc.co.uk/bitesize/guides/zdydmp3/test | |
| 7 | Further Spreadsheets. Formulae and Functions Revision https://www.bbc.co.uk/bitesize/guides/zdydmp3/revision/5 Test https://www.bbc.co.uk/bitesize/guides/zdydmp3/test | |
| 8 | Introduction to python Complete the FarmBot Python exercise https://www.turinglab.co.uk/courses/6351670fa5ff22001c0c81b9 | |
| 9 | Computer Hardware - Digital devices Revise https://www.bbc.co.uk/bitesize/guides/zxb72hv/revision/1 Test https://www.bbc.co.uk/bitesize/guides/zxb72hv/test | |
| 10 | Event Driven Scratch Learn Scratch - Tutorials https://scratch.mit.edu/projects/editor/?tutorial=getStarted | |

| | Activity/ link | Completed? |
|----|---|------------|
| 1 | Read your knowledge organiser. Create flash cards for the key terms for all topics. | |
| 2 | Write out all of your key terms. Test yourself on the definitions. Mark in a different colour and correct which ones you got wrong. | |
| 3 | Read the Year 7 life of Jesus knowledge organiser. Draw a storyboard to retell one of the Miracles. CHALLENGE: Explain an alternative explanation for the event not being a miracle. | |
| 4 | Read the Year 7 life of Jesus knowledge organiser. Create two lists based on similarities and differences of the nativity stories told in Matthew and Luke. | |
| 5 | Read the Year 7 How did Judaism begin knowledge organiser. Create a set of multiple-choice questions based on the information. Then complete without looking at the knowledge organiser. Mark in a different colour and correct the ones you got wrong. | |
| 6 | Read the Year 8 How did Judaism begin knowledge organiser. Write all the plagues and the scientific explanation of the plagues mixed up on a page. Draw a line matching up the plague to the explanation. Mark in a different colour and correct the ones you got wrong. | |
| 7 | Read the Year 8 How did Judaism begin knowledge organiser. Summarise the life of Moses into 50 words. | |
| 8 | Read the Year 8 Existence of God knowledge organiser. Split a page in two. On one side title it 'Reasons why a theist would say God exists' on the other 'Reasons why an atheist would say God does not exist'. Using the knowledge organiser sort the information under the correct heading. CHALLENGE: From memory, explain what the problem of evil is. | |
| 9 | Read the Year 8 Islam practices knowledge organiser. Create a flash card for each of the 5 pillars. Each must contain a summary of the pillar and a reason of why it is important to a Muslim. | |
| 10 | Read the Year 8 Islam practices knowledge organiser. In your own words write a diary entry from the perspective of a Muslims completing Hajj. State what you did and why you did it. Mark in a different colour and what you missed out on. CHALLENGE: Watch Big Zuu Goes to Mecca - BBC iPlayer and write how each stage of the pilgrimage makes Big Zu feel. | |

The following list will give you a focus for your revision. This is for all areas of Technology – **Food, Textiles and Product Design**. Recall and reflect on which topics you have done this year. Write down as much as you can remember using a grid method, flash cards, a mind map or brain dump.

| | Activity/ link | Completed? |
|--|--|------------|
| | <p style="text-align: center;">Product Design Graphics Textiles Food</p> <p style="text-align: center;">The following topic areas are covered across all subjects</p> <p style="text-align: center;"><i>Tools and Equipment • Health and Safety • Process and Techniques • Materials and Manufacture • Designing and Problem solving • Evaluating products</i></p> <p style="text-align: center;"><i>• Social, sustainable and environmental issues</i></p> | |
| | <p style="text-align: center;">Tasks – Use the links below to help you take notes, create mind map or flashcards. Some of the links have quizzes to test your knowledge</p> | |
| | <p>Product Design</p> <ul style="list-style-type: none"> • Tools and processes • Health and Safety • Manufacturing - computer aided manufacture (CAM) • Manufacturing and materials • Natural and manufactured timbers - Material categories and properties • Design process • Design and communication – sketching and modelling • Product analysis | |
| | <p>Graphics Design</p> <ul style="list-style-type: none"> • Beginning Graphic Design: Branding & Identity • How can designers use 'biomimicry' and 'biomorphic' for inspiration? | |
| | <p>Textiles</p> <ul style="list-style-type: none"> • Textiles - Material categories and properties • True cost of fashion - what fabrics do we have in the home? • What does sustainability in textiles mean? • Ecological and social footprint - Textile-based materials • Hand stitching - Constructional textiles - AQA - GCSE Art and Design Revision - AQA - BBC Bitesize • Machine stitching - Constructional textiles - AQA - GCSE Art and Design Revision - AQA - BBC Bitesize • Embellishing techniques - Constructional textiles - AQA - GCSE Art and Design Revision - AQA - BBC Bitesize | |
| | <p>Food</p> <ul style="list-style-type: none"> • Food groups and the Eatwell Guide - Food and nutrition for good health • The Eatwell Guide and Resources Food Standards Agency • The causes of food poisoning • Factors influencing special diets - Special diets - GCSE Hospitality (CCEA) Revision - BBC Bitesize • Cross-contamination - Special diets - GCSE Hospitality (CCEA) Revision - BBC Bitesize | |