



Summer Classroom

Y10 moving into Y11 September 2021

Here is a menu of lessons for you to work through over the summer break. We do not want to allow the disruption caused by the pandemic to weaken your knowledge, skills and understanding in key areas of the curriculum, so the lessons have been carefully curated to focus on aspects of the curriculum that are particularly important to support your learning from September in Y11. (You should only take the lessons for subjects you are studying, of course!)

You may feel that you have covered some of these lessons before, but we want to make sure that we give you every opportunity we can to help you ensure that you are confident and secure with these key aspects of the curriculum.

We will check your confidence and security in these areas on your return in September to make sure that the curriculum we have planned to teach you — and the order of what we plan to teach you — is appropriate. These checks will also allow us to ensure that we provide you with the most appropriate and personalised support we can.

Most subjects provide lessons that include an introduction quiz with answers and the opportunity to review your understanding; a video of a teacher teaching the topic (which you can pause and replay if you need to); an activity for you to practice what you have learned with solutions to allow you to review your own learning; and an exit quiz to help you check your own progress.

Good luck, and enjoy!

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English Lessons

(Click on the link to open the lesson and activities)

- 1 [An Inspector Calls: Class, Capitalism and Socialism: 1912-1946](#)
- 2 [An Inspector Calls: The Inspector \(Part 1\)](#)
- 3 [An Inspector Calls: The Inspector \(Part 2\)](#)
- 4 [An Inspector Calls: Responsibility \(Part 1\)](#)
- 5 [An Inspector Calls: Responsibility \(Part 2\)](#)
- 6 [An Inspector Calls: The Inspector's Final Speech](#)

English Challenge

- Re-read the play of *An Inspector Calls* and make a summary of each Act, including key quotations.
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Mathematics Lessons (Higher Tier)

(Click on the link to open the lesson and activities)

* For students of SLC, TN/SLD, SV, GLM and VLH.

- 1 [Use tangent to find a length](#)
- 2 [Use sine and cosine to find a length](#)
- 3 [Applying Trigonometry](#)
- 4 [Solve linear simultaneous equations where one of the coefficients is equal](#)
- 5 [Solve linear simultaneous equations where you need to multiply one of the equations](#)
- 6 [Use formulae to solve quadratic equations \(any value\)](#)
- 7 [Solve a quadratic equation by factorising](#)

Mathematics Challenge

- Play with the 15-minute Maths Challenges on <https://parallel.org.uk> (if you wish you can create your own free account with the Teacher Code you may have been given).

Mathematics Lessons (Foundation Tier)

(Click on the link to open the lesson and activities)

* For students of KA, JSe, TH and DR.

- 1 [Solving two-step equations](#)
- 2 [Solving equations with unknown on both sides](#)
- 3 [Expand 2 brackets and simplify expressions \(Part 1\)](#)
- 4 [Expand and simplify double brackets](#)
- 5 [Simple fraction, decimal and percentage equivalents](#)
- 6 [Simple percentages without a calculator](#)

Mathematics Challenge

- Play with the 15-minute Maths Challenges on <https://parallel.org.uk> (if you wish you can create your own free account with the Teacher Code you may have been given).
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Physics Lessons

(Click on the link to open the lesson and activities)

- 1 [Radioactivity](#)
- 2 [Conservation of energy](#)
- 3 [Specific heat capacity](#)
- 4 [Domestic electricity](#)

Physics Challenge

- Try out some (or all) of these Marvin and Milo experiments at home. Take pictures of your experiments and make a poster about what happened. <https://spark.iop.org/collections/marvin-and-milo#gref>

Chemistry Lessons

(Click on the link to open the lesson and activities)

- 1 [Bonding and properties](#)
- 2 [Quantitative chemistry](#)
- 3 [Atomic structure and Periodic table](#)

Chemistry Challenge

- Try out some (or all) of these Marvin and Milo experiments at home. Take pictures of your experiments and make a poster about what happened.
<https://spark.iop.org/collections/marvin-and-milo#gref>
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Biology Lessons

(Click on the link to open the lesson and activities)

- 1 [Osmosis](#)
- 2 [Enzymes](#)
- 3 [Photosynthesis](#)

Biology Challenge

- Try out some (or all) of these Marvin and Milo experiments at home. Take pictures of your experiments and make a poster about what happened.
<https://spark.iop.org/collections/marvin-and-milo#gref>

Computer Science Lessons

(Click on the link to open the lesson and activities)

- 1 [Account security](#)
- 2 [Respectful communication](#)
- 3 [Cyberbullying](#)
- 4 [Recognise and report](#)
- 5 [Use presentation tools](#)
- 6 [Create a presentation](#)

Computer Science Challenge

- Try creating an animated presentation / game in Scratch (free and available online) which tests the user on their knowledge of the themes in these lessons.
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Geography Lessons

(Click on the link to open the lesson and activities)

- 1 Priority unit: [The Challenge of Natural Hazards](#)
(choose a lesson most applicable to you: Hazards and Climate Change)
- 2 [Global Ecosystems](#)
- 3 [Tropical Rainforest](#)
- 4 [Global Urban Change](#)
- 5 [Urbanisation](#)
- 6 [Sustainable Urban Living](#)

Geography Challenge

- Access [these resources](#) to enhance your knowledge of all units: pre-read for Y11.
- Use [this website](#) to access videos and reading to enhance your knowledge.

History Lessons

(Click on the link to open the lesson and activities)

- 1 [What did people think about where disease came from in Medieval Britain?](#)
- 2 [How did people in the medieval times try to prevent and cure diseases?](#)
- 3 [Why was there greater medical progress between 1500-1750?](#)
- 4 [How did ideas about the cause of disease change between 1700-1900?](#)
- 5 [How did ideas about the cause of disease change after 1900?](#)
- 6 [How did approaches differ in dealing with the Great Plague compared to the Black Death?](#)

History Challenge

- Fill in any gaps in your revision resources using your booklets to help you.
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French Lessons

(Click on the link to open the lesson and activities)

- 1 [Discussing career choices part 1](#)
- 2 [Discussing career choices part 2 \(including conditional\)](#)
- 3 [Discussing career choices part 3 \(verbs\)](#)
- 4 [Talking about future plans part 1 \(future tense revision\)](#)
- 5 [Talking about future plans part 2 \(future tense continued + time expressions\)](#)
- 6 [Talking about future plans part 3 \(if clauses\)](#)
- 7 [Talking about future plans part 4 \(pour + infinitive\)](#)

French Challenge

- Using what you have learnt from the lessons above, create an account about your dream and nightmare jobs, in French. Aim for 100-200 words. Add opinions, justifications, connectives, adjectives, and of course, the future tense! It does not have to be real- you can make it up!

Beliefs & Values Lessons

(Click on the link to open the lesson and activities)

- 1 [Christian Just War Theory](#)
- 2 [Peace, justice, forgiveness, reconciliation](#)
- 3 [Views on lawbreakers and types of crime within Christianity](#)
- 4 [Attitudes to treatment of criminals](#)
- 5 [Social Justice and Human Rights](#)
- 6 [Religious freedom and censorship](#)
- 7 [Attitudes to wealth in Christianity and Islam](#)

Beliefs & Values Challenge

- See the 'Beliefs and Values Book and Film List' uploaded to Class Charts for some books that you could read to enhance your learning of the topics in Beliefs and Values this year.
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Design & Technology Lessons

Your knowledge of the Timbers Unit will be assessed in your Year 11 Exam in the Summer Term 2022. We have included a link in Class Charts to a document for you to read through and make some notes of each section where possible. We recommend that you attempt the Checkpoint – 'Strengthen' questions within each section as a minimum.

Pages 277-283 Sources of Timber.

Pages 283-287 Selection of Timber.

Pages 288-289 Strengthening Timber.

Pages 290-291 Stock Forms and Sizes.

Pages 292-295 Manufacturing Processes.

Pages 296-304 Equipment and processes used to make prototypes.

Pages 304-305 Surface treatments and finishes.

Pages 306-311 Exam Strategy & Revision Tips.

Design & Technology Challenge

- Complete the Challenge questions within each of the sections above. Make sure you save your work.

Engineering Design Lessons

In preparation for the May/June 2022 external exam,
unit R105: Design Briefs, Design Specifications and User Requirements:

- 1 Using the Revision Guide provided on Class Charts have created for you, attempt all questions for LO1: Understand the Design Cycle and the Relationship Between Design Briefs and Design Specifications.
 - 2 Check your answers in the textbook (Engineering Design) you have been given.
 - 3 Read the relevant sections and then try to answer the questions again.
 - 4 Focus on the questions you get wrong, not the ones you answer correctly.
 - 5 Continue revising and answering the questions until you feel confident that you would be able to answer all the questions correctly.
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NCFE Engineering Lessons

(Click on the link to open the lesson and activities)

* Remember that your exam is currently due to take place at 9:00am on 25/11/2021.

- 1 [Revision workbook](#)
- 2 [Revision book](#)
- 3 [Extended question practice](#)
- 4 [Extended question practice answers](#)
- 5 [NCFE Level 1/2 Technical Award in Engineering \(qualhub.co.uk\)](#)

Art & Design Lessons

(Click on the link to open the lesson and activities)

- 1 Go through your book and add to/refine your **three** final ideas. Make sure that you have three full ideas with notes, images, and sketches/samples of media. **Please refer to the PPT 'Final Ideas and Guide PPT' in your Class charts where this work has also been set.**
- 2 Ensure you have collected 3-4 **photographs** which inform your ideas and link to your development. These are YOUR primary sources. Stick them into your books and label them on a separate page or as flaps for each idea. Look at the PPT Mock Preparation for Final piece to help inspire you.
- 3 Ensure you have cut out and stuck in the **artist link images** for each idea. You had these in class. Sketch or draw samples saying how the images inform your progress.
- 4 Make sure you have included a **detailed study of an artist** that links to your theme. There should be at least one and you can use the help sheet at the end of the PPT or the annotation window for this.
- 5 Include a page in your sketch book that sketches out the **layout of your final piece** and the composition — where everything is going to go. Look at the PPT called Thumbnail sketches for examples on how to draw out your layout choices. This PPT is helpful!
- 6 **Complete actual final piece** and rework/refine areas. This is VERY IMPORTANT. You can send images to your teachers, and they will give you feedback. Make sure you take pictures of the various stages leading up to finishing

Art & Design Challenge

- When you have completed your Food and Drink project, it is time for you to come into your own! Create art that you love. Paint, draw, work digitally, make sculptures, collect things from your travels or surrounding areas

Music Lessons

(Click on the link to open the lesson and activities)

- 1 [Understanding Baroque Music](#)
- 2 [Pitch and Stave Notation](#)
- 3 [Creating a simple accompaniment Part 1](#)
- 4 [Creating a Simple accompaniment Part 2](#)
- 5 [Film Music: Underscore](#)
- 6 [Voicings and chordal accompaniment](#)

Music Challenge

- There are a number of videos which may help you.
The 'Flipping Fantastic' Virtual Textbook is an excellent resource to use:
[OCR GCSE Music Virtual Textbook AoS 2 - 1. Baroque Features](#)
[OCR GCSE Music Virtual Textbook AoS 4 - 5. Computer Game Music](#)
[OCR GCSE Music Virtual Textbook AoS 5 - 1. Voices in Pop](#)
[OCR GCSE Music Virtual Textbook AoS 5 - 3. Blues to Rock 'n' Roll](#)
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Drama Lessons

(Click on the link to open the lesson and activities)

- 1 [Evaluating Stagecraft - Use of Space & Technical Elements](#)
- 2 [Evaluating Stagecraft - Contemporary Interpretations](#)
- 3 [Evaluating Stagecraft - Ensemble Acting](#)
- 4 [Evaluating Stagecraft - Special Effects](#)

Drama Challenge

- You must ensure that your Portfolio is up to date. You should have typed up Questions 1-4 in full.

Media Studies Lessons

(Follow the instructions to access the activities)

- 1 Go to our class Teams folder and navigate to the coursework folder in 'Class Materials'. Locate and download the coursework briefs (a pdf document) and a MS Word document entitled 'Statement of Intent.'
 - 2 Choose which coursework production you want to do from Briefs 1-5. Using the MS Word document on which to write, plan your production — giving as much detail as you can about what you hope to do.
 - 3 Use the fine detail of the Brief to explain your intentions in no more than 300 words.
 - 4 Start gathering materials/ideas/footage for your production.
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BTec Sport Lessons

(Click on the link to open the lesson and activities)

- 1 [Forestry Step Test](#)
- 2 [Training Zones](#)
- 3 [Borg Scale](#)
- 4 [Speed Training](#)
- 5 [Principals of Training](#)
- 6 [Flexibility Training](#)