



Summer Classroom

Y9 moving into Y10 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 Y10.

You should only take the lessons for subjects you will be studying in September, of course. In other words, do not take the lessons for subjects you have not opted for (unless you want to, 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.

Each lesson includes 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!

Contents

English Lessons	p3
Mathematics Lessons	p3
Science Lessons	p4
Computer Science Lessons	p4
Geography Lessons.....	p5
History Lessons.....	p5
French Lessons	p6
German Lessons	p6
Beliefs & Values Lessons.....	p7
Design & Technology Lessons.....	p7
Food Preparation & Nutrition Lessons	p8
Art & Design Lessons	p8
Music Lessons.....	p9
Drama Lessons.....	p9
PE Lessons	p1

English Lessons

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

- 1 [An Introduction to Poetry](#)
- 2 [What makes a poem, a poem?](#)
- 3 [Big Ideas and Emotions in Poetry](#)
- 4 [Introduction to Poetry: Imagery](#)
- 5 [Introduction to Poetry: Structure](#)
- 6 [Introduction to Poetry: Rhyme Scheme](#)

English Challenge

- [Introduction to Poetry: Poetic Metre](#)
-

Mathematics Lessons

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

- 1 [Forming and Solving Linear Equations](#)
- 2 [Forming and solving equations Lesson 2](#)
- 3 [Decimal multipliers for percentage calculations](#)
- 4 [Increase by a percentage](#)
- 5 [Decrease by a percentage](#)
- 6 [Using Pythagoras' Theorem](#)

Mathematics Challenge

- [The Four Colour Map problem](#)
- 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).

Science Lessons

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

- 1 [Osmosis](#)
- 2 [Structure of atoms](#)
- 3 [Specific heat capacity](#)

Science 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 [You and your data](#)
- 2 [Social engineering](#)
- 3 [Script kiddies](#)
- 4 [Rise of the bots](#)
- 5 [There's no place like 127.0.0.1](#)
- 6 [Under attack](#)

Computer Science Challenge

- The Office of National Statistics ([ons.gov.uk](https://www.ons.gov.uk)) collects data at a national level but which you can filter down to your local area. Try exploring their website to find out what you can about your local area and how it differs from the national picture, using CODAP graphs to illustrate your investigation.

Geography Lessons

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

- 1 [Globalisation](#)
- 2 [How does globalisation affect trade?](#)
- 3 [What are glaciers?](#)
- 4 [Causes of uneven development](#)
- 5 [Major landscapes of the UK](#)
- 6 [Effects of climate change](#)

Geography Challenge

- Check these resources on the continent of Africa and challenge your knowledge:
<https://senecalearning.com/en-GB/seneca-certified-resources/geography-ks3-1>
-

History Lessons

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

- 1 [Causes of WW2: Why did the League of Nations fail – Successes in the 1920s](#)
- 2 [Causes of WW2: Why did the League of Nations fail – Failure in the 1930s](#)
- 3 [Causes of WW2: Appeasement](#)
- 4 [The outbreak of WW2](#)
- 5 [Blitzkrieg and Nazi control of Europe](#)
- 6 [The Battle of Britain and aerial bombardment](#)

History Challenge

- [Stalingrad and D-Day](#)

French Lessons

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

- 1 [What people do \(regular -er verbs\)](#)
- 2 [What people do \(part 2 -er verbs revision and present continuous\)](#)
- 3 [What people do \(aimer + infinitive\)](#)
- 4 [What people do \(part 2 'à'\)](#)
- 5 [What you do and others \(plural verbs\)](#)
- 6 [What you do and others \(part 2\)](#)

French Challenge

- Using what you have learnt from the lessons above, create an account of what you and other people are doing right now on your summer holiday, in French. Aim for 50-100 words, and add your opinions, both positive and negative. It does not have to be real: you can make it up!
-

German Lessons

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

- 1 [This summer \(contrasting present and past\)](#)
- 2 [This summer \(part 2\)](#)
- 3 [Staying with a family in Germany \(expressions\)](#)
- 4 [Staying with a family in Germany \(part 2 'zu'\)](#)

German Challenge

- Using what you have learnt from the lessons above, create an account of your summer holiday in German. Use present tense and past (perfect) tense. Aim for 50-100 words, and add your opinions, both positive and negative. It doesn't have to be real: you can make it up!

Beliefs & Values Lessons

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

- 1 [The nature of God in Christianity](#)
- 2 [The Trinity in Christianity](#)
- 3 [The crucifixion of Jesus](#)
- 4 [The Resurrection of Jesus](#)
- 5 [The different styles of worship that take place in the Christian Church today](#)
- 6 [The historical Buddha, Siddhartha Gautama](#)
- 7 [The Three Marks of Existence](#)

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; they will also help prepare you for the themes paper in year 10: Plain Truth by Jodi Picoult, Noughts and Crosses by Malorie Blackman, The Help by Kathryn Stockett, Plain Truth by Jodi Picoult, The Storyteller by Jodi Picoult, Monster by Walter Dean Myers. There are also some films that you could watch, maybe: The Green Mile (12), Mandela Long Walk to Freedom (PG), Invictus (12), The Railway Man (15).
-

Design & Technology Lessons

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

- 1 [Core design skills: Graphic communication](#)
- 2 [Textiles technology and sustainability: The true cost of fashion](#)
- 3 [Designing for others](#)
- 4 [How technology has changed to meet the demands of the consumer](#)

Design & Technology Challenge

- Try and complete one (or both!) of the following:
 - ⇒ [Cambridge Consultants STEM Challenge](#)
 - ⇒ [Challenge cards from the James Dyson Foundation](#)

Food Preparation & Nutrition Lessons

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

- 1 [Dietary variety](#)
- 2 [New technologies in food production](#)
- 3 [Food processing and organic farming](#)
- 4 [Cooking techniques and preparing food safely](#)

Food Preparation & Nutrition Challenge

- Cook a dish for a special diet of your choice,
e.g., vegetarian, gluten free, lactose free: www.bbcgoodfood.com.
-

Art & Design Lessons

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

- 1 [Jasper Johns artist study](#)
- 2 [Jasper Johns artist task](#)
- 3 [Peter Blake research](#)
- 4 [Peter Blake artist task](#)

Art & Design Challenge

- Present your work in a creative way.
You may want to share it with your teacher.
It could be in the form of a slide show, video or gallery display.
Be creative!

Music Lessons

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

- 1 [Understanding more about Baroque Music](#)
- 2 [What are the most useful chords?](#)
- 3 [How are pop songs structured?](#)
- 4 [Understand how to compose a rap](#)
- 5 [Structure and Tonality of The Blues](#)
- 6 [Music for Film](#)

Music Challenge

- Choose one of the topics that you have studied and compose or perform a piece of music which is based on one of those styles. Record it and send it to your teacher. Be creative!
-

Drama Lessons

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

- 1 [Evaluating Live Theatre - Lighting & Sound](#)
- 2 [Evaluating Live Theatre - Developing Analytical Skills](#)
- 3 [Evaluating Live Theatre - Set Design & Evaluative Response](#)
- 4 [Physical Skills - Use of Posture, Stance & Space in Performance](#)
- 5 [Vocal Skills - Use of Pace, Pause & Tone in Performance](#)
- 6 [Physical Skills - Use of Gesture & Mannerisms in Performance](#)

Drama Challenge

- Watch the '[Everybody's Talking About Jamie](#)' Trailer. Choose a key moment and analyse the use of performance skills and production elements. Write a mini review of that moment.

PE Lessons

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

- 1 [How can monitoring heart rate be used to improve fitness?](#)
- 2 [What is resistance training?](#)
- 3 [What is aerobic training?](#)
- 4 [What is high intensity interval training?](#)
- 5 [How can fitness be measured?](#)
- 6 [How can training be personalised?](#)

PE Challenge

- Attempt to complete 60 minutes of moderate to physical activity every day for example walking, jogging, swimming, cycling, etc.