



## Summer Classroom

### Y8 moving into Y9 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 Y9.

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!

And have a wonderful summer.

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## English Lessons

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

- 1 [Independent Clauses](#)
- 2 [Subordinate Clauses](#)
- 3 [Subject Verb Agreement](#)
- 4 [Avoiding Run on Sentences](#)
- 5 [Avoiding Fragments](#)
- 6 [Incomplete Sentences](#)

## English Challenge

- [Introduction to Poetry](#)
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## Mathematics Lessons

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

- 1 [Converting between fractions, decimals and percentages](#)
- 2 [Multiplying and Dividing fractions](#)
- 3 [Equivalent Ratios](#)
- 4 [Dividing in a ratio](#)
- 5 [Percentages of amounts](#)
- 6 [Using decimal multipliers to find percentages of amounts](#)

## Mathematics Challenge

- Can you solve [Charlie's Money](#) 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 [Respiration](#)
- 2 [Photosynthesis](#)
- 3 [Metals](#)
- 4 [Electricity](#)

## 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>
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## Computer Science Lessons

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

- 1 [Delving into data science](#)
- 2 [Global data](#)
- 3 [Statistical state of mind](#)
- 4 [Data for action](#)
- 5 [Clean it up](#)
- 6 [Make a change](#)

## Computer Science Challenge

- Try creating an animated presentation (in Scratch or Pivot (both free and available online) which warns of the dangers of cyber-attacks. If you program it in Scratch you could build a game which includes questions to test the user.

## Geography Lessons

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

- 1 [What is development?](#)
- 2 [How do we measure development?](#)
- 3 [What are the causes of uneven development?](#)
- 4 [What are the factors that affect the climate?](#)
- 5 [Climate Graphs](#)
- 6 [River Profiles](#)

## Geography Challenge

- Have a look at Gapminder's [Dollar Street](#) again.
  - Upgrade your world view at: <https://www.gapminder.org>.
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## History Lessons

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

- 1 [The British Empire](#)
- 2 [Colonialism of India](#)
- 3 [Events of 1857](#)
- 4 [British reaction to 1857](#)
- 5 [The Story of Christopher Columbus](#)
- 6 [The Columbian Exchange](#)
- 7 [The impact of 1492 on trade and world empires](#)

## History Challenge

- Have a go at some games on this site: <https://schoolhistory.co.uk/games>.  
You can either look at a new topic or test yourself on a topic you were taught in Y7 or Y8.

## French Lessons

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

- 1 [Describing things \(part 1 masculine and plural nouns\).](#)
- 2 [Describing things \(part 2 masculine and plural adjectives\).](#)
- 3 [Describing things \(part 3 different adjectives\).](#)
- 4 [Describing things \(part 4 multiple adjectives\).](#)

## French Challenge

- Using what you have learnt from the lessons above, create a description of either: your house, your school, or your family, in French. Aim for 50-100 words. Add both positive and negative opinions, too. It doesn't have to be real, it can be made up!
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## 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 [Bar and Bat Mitzvah](#)
- 2 [Jewish Food laws](#)
- 3 [Shabbat](#)
- 4 [The Prophet Muhammad](#)
- 5 [The pillar of Sawm](#)
- 6 [Scientific views on the origin of the Universe](#)
- 7 [Christian views on the origins of humanity](#)
- 8 [Scientific views on the origins of humanity](#)

## 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. Maybe: Pig-heart Boy by Malorie Blackman, Black Beauty by Anna Sewell, Flowers For Algernon by Daniel Keyes, War Horse by Michael Morpurgo, Refugee Boy by Benjamin Zephaniah. There are also some films you could watch to also enhance your learning, maybe: Gorillas in the Mist (PG), Black fish, He named me Malala (PG).
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## 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 [An introduction to what influences our food choices](#)
- 2 [Recipe development](#)
- 3 [Health and Safety: Preparation and hygiene](#)
- 4 [Minimising waste](#)

## Food Preparation & Nutrition Challenge

- Cook a dish for a special diet of your choice, e.g., vegetarian, gluten free, lactose free: [www.bbcgoodfood.com](http://www.bbcgoodfood.com).
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## Art & Design Lessons

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

- 1 [Paper sculpture manipulation](#)
- 2 [Sculpture inspired by natural forms](#)
- 3 [Assemblage art](#)
- 4 [Pencil study of sculpture](#)

## 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 [Performing Pulse and Rhythm](#)
- 2 [How to communicate the meaning of a song effectively](#)
- 3 [The many drums of West Africa](#)
- 4 [West African rhythms and composition](#)
- 5 [Understanding more about Baroque Music](#)
- 6 [John Lennon 'Imagine'](#)

## Music Challenge

- Choose one of the topics and create a piece of work around it. This can be recorded or performed and sent into your teacher. Be creative!
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## Drama Lessons

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

- 1 [Use of Posture, Stance and Space in Performance](#)
- 2 [Use of Pace, Pause & Tone in Performance](#)
- 3 [Use of Gesture & Mannerisms in Performance](#)
- 4 [Characterisation](#)
- 5 [Eye Contact, Proxemics & Movement](#)

## Drama Challenge

- Write your own monologue based on a key emotion. Apply Given Circumstance, interpretation and motivation. Then apply the physical and vocal skills you've used so far. Perform it!

## **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.