

## **Year 7 Summer work**

This academic year has presented unique challenges for year 7s and we would like to take this opportunity to thank you for everything you have done to support their learning over the course of the year as well as praise their incredible resilience. The most important thing for your son to do over the Summer holidays is to take a break and relax in order to recharge for the challenges of year 8! However, we understand that as you read through his report there might be a couple of subject areas in which he might benefit from completing outstanding assignments or consolidation work. Below are suggestions of some optional supplementary consolidation work for his subjects or avenues for exploring particular areas of interest. There is no expectation that your son will complete any particular sections of this work. Instead, please use this as a starting point for conversations with your son about areas of his subject knowledge he might want to improve or extend. We know we all naturally want to practice what we are already good at and would encourage your son to push himself out of his comfort zone.

## **Art**

If your child wishes to continue to work on their art practice over the Summer, we would suggest that they continue to work on their skills of analysis by drawing from first-hand observation, or produce their work in response to one of the books suggested below.

### Suggested books

- How to be an Explorer of the World, The Pocket Scavenger, Wreck This Journal – Keri Smith
- ...isms: Understanding Art – Stephen Little
- Understanding Modern Art New Edition (Isms) – Sam Phillips
- The Art Book, The 20th Century Art Book, The Photo Book, The Fashion Book – Phaidon Press

Visiting live art and other curated collections where possible is also recommended, for example in museums, galleries, or other institutions, so that they can see that Art is not just about painting and drawing, and that there are lots of exciting artists, designers, and makers to inspire them in their own work. Please see the list of suggest venues provided in the back of Year 7 sketchbooks, or ask your child to show you the list shared through their Art class on Microsoft Teams.

## **Biology**

Over the academic year pupils in year 7 Biology have worked on the topics of cells, reproduction, variation, classification and ecology. Students have increased their scientific literacy and use of key terminology as well as numerical skills. In practical work they have learned how to use a microscope and think scientifically using evidence. We have completed key assessments in all topics and your Son will have yellow feedback sheets in his book in which he has detailed the improvements he can make to continue to progress. Homework has allowed the exploration of the topics in greater depth with a choice of activities to suit different learning styles. Moving forwards it is important your Son fully understands these fundamental topics which we will revisit throughout the next 4 years in Biology. The key concepts we have begun in year 7 are:

Cells - including cell structure, specialisation, organisation of organisms, microscopes and scale;

Homeostasis – including hormones in reproduction and the menstrual cycle;

Ecosystems – including food webs, interactions of organisms and adaptations;

Genetics- including the basis of hereditary in reproduction and variation;

Biodiversity – including variation in species and adaptations.

In year 8 we will discover more about biochemistry, communication, exchange & transport and health & disease. All of these topics are in the textbook provided by the school Longman Biology 11-14 (ISBN: 9781408231104) that your Son will keep until the end of year 8.

- 1) We suggest that any remaining assignments on teams are completed some will be set for over summer
- 2) We suggest your Son reviews Chapter 1,5,6,8 and 9 in the textbook provided
- 3) We suggest your Son reviews the self-evaluation sheets in their book and tries to address what he needs to improve.

### **Chemistry**

During this period of remote learning your son has been studying acids and alkalis. To consolidate this work over the summer he could do the following:

- Ask your family to help you find at least 6 acids and 6 alkalis in your home
- Have a go at [this puzzle](#) on the RSC website.
- Take a look at [this simulation](#) on pH
- Learn the definition relating to acids and alkalis you have studied this term.

All this information along with some optional practice questions can be found in your son's Chemistry team.

### **Classics**

Like all languages, your son's knowledge of Latin would benefit from regular top ups over the Summer. He should make sure he is comfortable with the contents of chapters 1 and 2 of Latin to GCSE 1 as well as the vocabulary from chapter 3. There are lots of options for using [quizlet](#) or [VTP5](#) to do this. As extension work, your son could spend some time learning the OCR Entry level vocabulary list which can be found on pages 23f of [this document](#).

To broaden your son's knowledge of the ancient world, he could listen to relevant episodes of Greg Jenner's [Homeschool history](#) podcasts, watch some of the [Extra History](#) Youtube cartoons, or learn more about mythology via [Crash Course Mythology](#).

## **Compsci**

In preparation for an exciting coding year ahead in year 8, students should consider trying out some of the activities listed below:

Look at the Python PyGame graphics library that will be used in year 8. Many example programs are located [here](#): Review the source code of the exemplars and start by making shapes appear on the screen, then program a game yourself!

Get ready to enter some competitions. Exercises and details can be found on the following websites:

- [https://challenge.bebas.uk/index.php?action=user\\_competitions](https://challenge.bebas.uk/index.php?action=user_competitions)
- <https://joincyberdiscovery.com/>
- <https://www.paconsulting.com/events/raspberry-pi-competition-uk/>
- <https://www.teentech.com/>

Develop an understanding of algorithms by attempting to solve the challenges [here](#):

Teachers will be online during the summer and students are welcome to ask for ideas and support as they make progress.

## **Drama**

We would encourage your son to broaden their group work next year beyond their friendship groups, to work with all and sundry in their class, and continue to commit fully to all Drama exercises however far out of their comfort zone it takes them. Over the summer the boys could consider the non naturalism story telling techniques they have covered and how builds in pace to crescendo and pauses are effective in text work to shape a scene.

## **English**

Take a look at [these Carnegie winning books](#). How many have you read? How many can you read during the holiday?

What about tackling a classic novel from the literary canon, but in an updated vlog form?

[Frankenstein](#), MD:

[The Lizzy Bennet Diaries](#):

Extend your knowledge of Greek and Roman legends with a series of video tutorials:

[Crash Course Mythology](#):

Read from our selection of specially recommended texts, as compiled by our Literacy Champion Mrs Geraghty Green:

### Fantasy

The Knife of Never Letting Go - Patrick Ness  
Artemis Fowl - Eoin Colfer  
His Majesty's Dragon - Naomi Novik  
Good Omens - Terry Pratchett & Neil Gaiman  
Young Miles - Lois McMaster Bujold  
The Name Of The Wind - Patrick Rothfuss  
The Dark Lord Of Derkholm - Diana Wynne Jones  
Inkheart - Cornelia Funke

### Poetry

The Odyssey - Homer  
The Fat Black Woman's Poems - Grace Nichols  
Leaves of Grass, Poetry and Prose - Walt Whitman  
The Little Book Of Vegan Poems - Benjamin Zephaniah  
The World's Wife - Carol Ann Duffy  
Ariel - Sylvia Plath  
The Wasteland - T S Elliot  
Falling Awake - Alice Oswald

### Autobiography

Boy - Roald Dahl  
I Know Why The Caged Bird Sings - Maya Angelou  
Becoming - Michelle Obama  
Fever Pitch - Nick Hornby  
Testament of Youth - Vera Brittain  
Playing It My Way - Sachin Tendulkar  
Long Walk To Freedom - Nelson Mandela  
Chronicles - Bob Dylan

### Classics

The Color Purple – Alice Walker  
The Outsiders – SE Hinton  
Treasure Island – RL Stevenson  
The Catcher In The Rye – JD Salinger  
Beloved – Toni Morrison  
Frankenstein – Mary Shelley  
David Copperfield – Charles Dickens  
Emma – Jane Austen

### Graphic Novels

The Gigantic Beard That Was Evil – Stephen Collins  
This One Summer -Mariko Tamaki  
On A Sunbeam – Tillie Walden  
V For Vendetta – Alan Moore  
Persepolis – Marjan Satrapi  
Maus – Art Spiegelman  
Ghost World – Daniel Clowes  
Scott Pilgrim – Bryan Lee O’Malley

## **Floreat**

Building on the Easter Enrichment Programme, the Floreat team have designed your task for the summer to develop your attributes of commitment, organisation and planning, as this one will require lots of practice, perseverance and patience!

The Challenge: Design, construct and test your own Marble Run.

- Can start and finish wherever you like (tip: use potential energy!);
- Can use any sort of small ball (golf ball / bouncy ball) instead of a marble;
- Feel free to use multiple balls, as long as the 'run' is continuous in some way;
- Submissions judged on creativity of construction, not just length
- Possible equipment (but go way beyond this and be creative!): furniture, pipes, books, tape, LEGO, wood, cardboard boxes, tape, cereal boxes, tubes.
- Must be max 1 minute long – send videos/links in to [communications@reading-school.co.uk](mailto:communications@reading-school.co.uk) or Tweet @readingsch or @FloreatReading with #RSEnrichment

## **French**

Revision exercises to consolidate knowledge of verb tenses and vocabulary are available on Teams. A suggested timetable has been provided which divides the topics into manageable chunks. These can be accessed at any time over the holidays and the students are free to pick and choose which topics to focus on. This consolidation work will help prepare the boys for their collections in September when we return.

Extension topics are also available for those who have studied French previously.

## **Geography**

Geography can be found anywhere within our day to day lives. With this in mind, we encourage students to maintain the geographical inquisitiveness they have developed in lessons throughout the summer holidays. This includes simply being aware of current events, and connecting this to the concepts they have learned throughout the year. Our subject also embraces a sense of curiosity about our physical surroundings. Students can maintain this by making informed guesses of about unusual landforms they come across, or taking the time to consider the social, economic and environmental consequences of developments in their local area.

If you visit any new places this holidays we would like you to explore the geography of them: Why was it built here? What are the population demographics? What are the landscape features like hills or rivers? Are the shops large chain shops or individually owed shops? The options are endless! You can discuss this with your family and maybe teach them some Geography too!

## **German**

Students continuing with German could benefit during the holiday from a revision of the work undertaken through the year. This is useful so that key grammar and vocabulary are not forgotten over the long summer break.

Revise the vocabulary at the end of chapters 0, 1A, 1B, 2A, 2B, 3B in Zoom 1 (also use Quizlet)

Revise Grammar we learnt in these chapters and there are also more explanations in the back of the book. This includes the definite and indefinite articles, possessive adjectives, e.g. mein/dein, conjugation pattern of verbs, including "sein" and "haben", word order: verb 2<sup>nd</sup>, use of gern, lieber, am liebsten and the cases: accusative and dative case.

The most effective and fun way to keep a language alive is to do regular, short (20 minute) sessions using the book on Kerboodle, then Quizlet, [www.languagesonline.org.uk](http://www.languagesonline.org.uk) and other interactive websites too.

### **History**

To help prepare for September, your son may benefit from investing time in some of the following activities, which will help to consolidate the work done in History this past year and give a greater understanding of the wider world:

- Create large timeline of all that has been studied this year – to put everything in its chronological order.
- Complete a '[Meanwhile, Elsewhere](#)' to correspond with a topic studied this year to understand what other significant events took place in the same time period but different location.

### **Mathematics**

In order to support your son to prepare for the future, he has been given a list of topics that has been studied during the course of the year, both in school and in remote learning. This list can be found in Teams. He has also been set some mymaths tasks that could be used during the summer holidays, if he would like to and is able to, to review topics and improve understanding where needed. The school login details are:

School username: readingsch

school password: subtraction

he will then have an individual login that his teacher will have provided.

### **Music**

Your son could continue developing his composition skills (individually or in collaboration) using Soundtrap or any other suitable online platform. They could compile a listening diary of songs/artists you listen to regularly explaining why they attract you and how they make you feel. They could choose an area of music (any area) and compile a research project using podcasts, encyclopaedia and any other online resource available. They could also watch the 6-episode BBC series [The Story of Music](#) presented by Howard Goodall.

### **Physics**

Log in to kerboodle.com. Find and click on the 'New for You' course. Click the 'DIGITAL BOOK' and find 'Physics for You' in the selection menu.

To review and extend your learning about Space:

1. Read pages 150 - 165
2. Complete the exercises on page 166
3. Check your answers using [this webpage](#):

To review and extend your learning about Mechanics:

1. Read pages 77 - 83 & 94 - 99
2. Complete the exercises on page 84 and 100
3. Check your answers using [this Pressure webpage](#) and [this Mechanics one](#):

### **Religious Studies**

Students could make sure that they can define the term "world view" and give short explanations for some of the world views they have studied, e.g. humanism, naturalism (scientism), hedonism, etc. They could also revise the most important parts of the religious world views they have studied, e.g. The Five Pillars of Islam; The concept "God" in Hinduism; elements of Sikh-worship and the idea of "covenant" in Judaism. They could also write a short report or discuss with you the historicity of Jesus Christ.

### **Spanish**

Like all languages, your son's knowledge of Spanish would benefit from regular review. A once a week 15/20 minutes should be plenty of time to keep up with the topics we studied during the year:

- He could revise vocabulary learnt during Y7 either by using the Spanish vocabulary booklet which can be downloaded from the files section of his Microsoft Teams Vocabulary channel or by using [Quizlet](#).
- In relation to Grammar he could at the grammar points studied during the year which can be found from [www.Kerboodle.com](#) text book Spanish Zoom1 pages 18,19, 34, 35, 50, 51
- For their Listening skills he could listening exercises from Spanish Zoom1 from units 0, 1A and 1B. Moreover, if your son enjoys watching films then, when possible, try to change the setup of languages to Spanish speaking with English subtitles.
- For those who want to extend their knowledge of Hispanic Culture students can use the resources in Spanish from using the website subscription [www.maryglasgowplus.com](#) by login with the students' code mesa52 magazine "¿Qué tal?" and reading interesting articles with a variety of vocabulary.