

Summer Reading and Activities 2017

Year 8

Please dip into any activities you want to!

**Enjoy your Summer Holidays!
from The Staff at RFSS**

English

Year Eight Summer Assignment 2017: Make the world a better place

Your summer assignment this year is designed to ensure that you make the most of the time off school, while at the same time giving you an opportunity to develop your skills as an artist.

Your Challenge:

Over the summer holiday, your mission is to complete a selection of the thirty challenges listed on the other side of this piece of paper. Have a look at the challenges now. If you have already completed some, ignore those and concentrate on the other ones. Try to select challenges that won't be too easy for you to complete: the ones that you think are harder are more likely to be more rewarding. You don't have to complete all the challenges listed, but give as many challenges as you can a try. Each and every student could easily complete six of these challenges over the summer, but there is nothing to stop anyone completing considerably more than that. The more challenges that you complete before September, the better.

Thirty things to do before you're thirteen.

It's sometimes easy to think that growing up is all about school, and that school is all about grades. The "to do list" presented overleaf is a challenge to all Year Seven students: try and complete every one of these thirty challenges before your thirteenth birthday. Each one is important. Each one will help you on your journey to becoming an adult, and help you live a happier life. Growing up in the twenty first century isn't easy, and there are lots of pressures on your time that can sometimes distract you from doing what you are supposed to, but completing the challenges on this list will help remind you what is important...

Recording Your Experiences:

Once you have completed your selection of challenges, record what you did, what happened and how it made you feel. This could take the form of a series of photographs, a written report or even your own drawings. However many challenges you complete, you need to create a total of just **one** double page. The double page that you complete should be a visual document describing the best challenges you chose and what you did in order to complete them, as well as recording anything surprising that happened as a result. Think carefully about your presentation: think like an artist!

For Parents:

We hope that students find the challenges listed both beneficial and rewarding, as well as memorable. The challenges should all be possible with little or no input from adults, and with little or no resources. If parents or siblings want to join in, then all the better!

Year Eight Summer Assignment 2017: Make the world a better place

Watch the news	Tell someone how much they mean to you.	Do a household chore without being asked.	Dream about your future and decide what you need to do to get there.	Read a book by an author you've not heard of.
Sort out what you don't need and give it to charity.	Speak out when you see something you don't think is right.	Walk a journey that you would usually take by car.	Write to your MP, about an issue you think is important.	Lie on the grass in summer and stare at the clouds.
Watch a black and white film.	Learn a poem by heart.	Write a list of things you would like to accomplish by the time you are eighteen.	Cook a meal for a friend to make them happy.	Hand write a letter to someone special and post it.
Switch off your on-line presence and avoid all social media for three days.	Make a list of all the positive things that you can be thankful for.	Talk to an older relative about your family history.	Pick up someone else's litter.	Grow something that you can eat.
Bake a cake for someone.	Try a new food you can't pronounce.	Learn to play a song on a musical instrument.	Skim a stone.	Volunteer.
Talk to an older relative about when they were young.	Learn how to cook your favourite meal.	Research a charity and organise a fundraising event.	Learn a magic trick.	Learn to recognise a constellation.

Remember: the more challenges on this list that you complete, the happier you are likely to become. Make the world a better place.

Maths

Find out about the life and work of one of the following famous mathematicians. Produce a biography outlining how their work has benefited mankind. The best ones will be displayed in the Maths rooms.

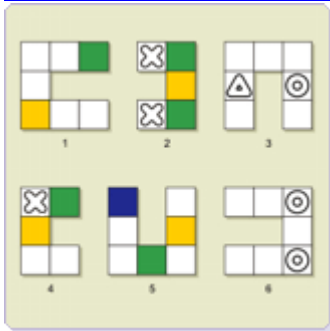
- Plato
- Euclid
- Eratosthenes
- Brahmagupta
- Leonardo of Pisa
- Blaise Pascal

Find some examples of mathematics in the real world (eg the spirals on a pine cone, the petals in a flower) and take photos of these to produce a maths scrap book showing the beauty of maths in nature.

Alternatively, spend time solving puzzles (some great sites to try below)

Sumaze is a really great maths app downloadable on apple and google.

<https://www.mathsisfun.com/games/index.html>



Or try

[Math and Logic Games - GAMES!!! Math is Fun](http://www.mathsisfun.com)

www.mathsisfun.com

Finally why not give this one a go?

<http://puzzles.com/Projects/LogicProblems.html>

Science

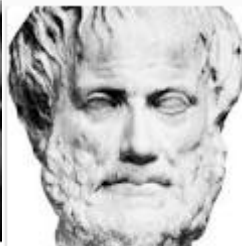
- **Bring a Scientist to life. These are just a few examples of Famous Scientists.**



Gregor Mendel
1822–1884



Francis Crick
1916–2004



Aristotle
384 BC–322...

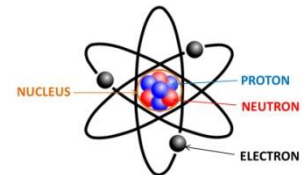


Edwin Hubble
1889–1953

Investigate a Famous Scientist and explain the theory or invention that they discovered.

- **Chemistry: How did Mendeleev create the Modern Periodic Table?**

Explore this interactive periodic table <http://www.rsc.org/periodic-table> and expand your knowledge about the elements that make the world we live in today. You could create a fact file describing the element that you found the most interesting or that you think could be used in Society today.



- **Physics: CERN**

What is the universe made of? How did it start? Physicists at CERN are seeking answers, using some of the world's most powerful particle accelerators.

Would you like to work or visit the Cern project?

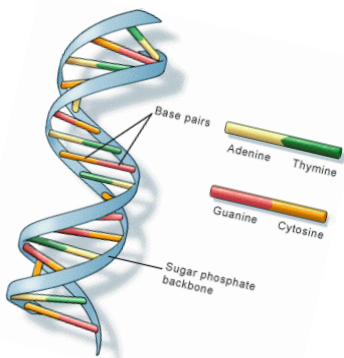
<https://home.cern/about> You could write a storyboard about one latest missions and how this is advancing our understanding of universe began.



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how the

- **Biology : Who are you?**

Throughout the 20th century, many scientists have tried to study deoxyribonucleic acid (DNA). In the early 1950's two scientists, Rosalind Franklin and Maurice Wilkins, studied DNA using x-rays. In 1962 Crick and Watson worked on making a 3d model of the DNA structure. Use your creative side and create a 3D model of the DNA structure and write a short description to explain what you model represents.



Geography

"My Summer Holiday"

Students need to keep a record of what they did during their summer holiday. This needs to be regularly kept up to date over the 6 weeks. Students need to produce a table with the following headings.

Date	Activity	Location of Activity	Physical or Human?	Recommend?
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You could also watch the following;

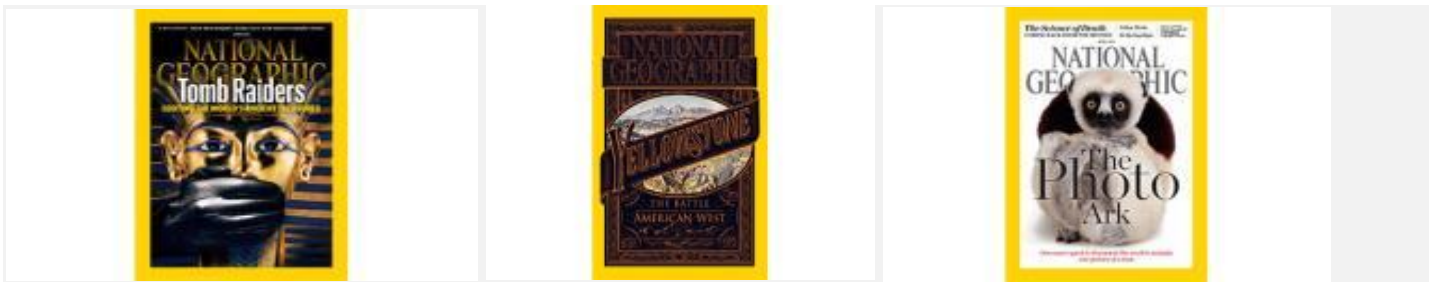
- BBC news either watching it or accessing the website. In particular, focusing on local, national and global issues.
- BBC weather website. A great way to start to understand the weather.

Have a look at the Ordnance survey website it's a good introduction to maps.

<https://www.ordnancesurvey.co.uk/osmaps>

Read any National Geographic magazine.

<http://www.nationalgeographic.com/>



History

Local History Project- Rugby in the 19th Century

Students need to investigate the history of the town of Rugby and produce a booklet that is information and historically accurate. The title of the booklet must be: "Rugby in the 19th Century".

The booklet must include the following information:

1. A timeline of significant/ important events that occurred in Rugby from 1800- 1899
2. Choose at least two of these events, research and write about them in detail.
3. Photographs/ images/ artwork of Rugby from the past.
4. A conclusion that expresses your opinion of what the town of Rugby was like during the 19th Century.

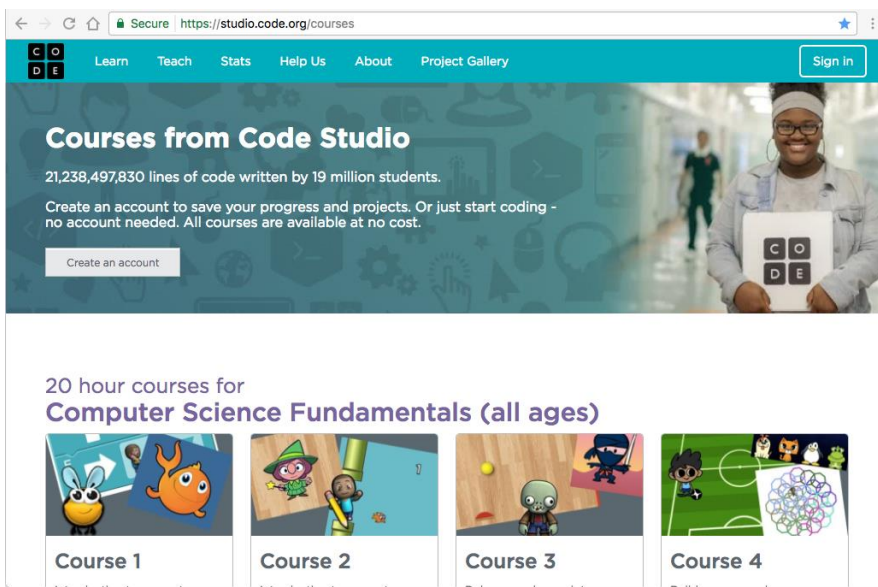
RE

Students need to research and write in detail the different Religious festivals that are taking place around the world during their summer holidays. 22nd July – 4th September. Students can produce this in any format that they may wish to.

Computing

Computer Science Fundamentals using code studio. You will delve deeper into programming topics to create flexible solutions to more complex problems. By the end of this course, you will create interactive stories and games that you can share with anyone. Visit this website:

<https://studio.code.org/s/course3>



You can **create an account** to keep track of your progress or you can just start coding.

You will need to complete **course 3 only** but, If you complete this and want more of a challenge, try and complete course 4 as well.

Music

Maintain the skills you have developed this year by;

- Playing the 'name the treble clef notes' game at <http://www.teachingideas.co.uk/music/namethatnote.htm>

See if you can move up a level and challenge yourself to beat your score!

- Playing the 'name keyboard notes' game at <http://www.zebrakeys.com/resources/musictools/keyboardtrainer/>

Can you work out the names of the black notes on the keyboard?

Our first topic in year 8 is The Blues. Listen to the following piece of Blues music and write down what you notice about the piece for example, instruments, tempo, dynamics. The piece is 'Sweet Home Chicago' by Eric Clapton

<https://www.youtube.com/watch?v=nm5R3r8adok>

Can you find out any information about the origins of Blues music? Can you find out the names of any Blues artists? What are some of the features of Blues Music?