



Wallington High School *For Girls*

MONDAY 25TH
JANUARY 2021

HEIRS OF THE PAST, MAKERS OF THE FUTURE

THE WALLINGTON WEEK

MESSAGE FROM THE HEAD TEACHER

Dear Parents and Carers,

I trust everyone is continuing to stay safe and well.

Now we have reached the end of the third week of lockdown, we have been gathering feedback from students on our remote learning provision. Students have been feeding back to tutors in form time as to how they are finding things currently and they were asked to respond to the following three questions:

- ◆ How are you finding the balance between live and non-live lessons
- ◆ Can you complete the work set for a non-live lesson within the lesson time? (this doesn't include homework?)
- ◆ On average, how much time are you spending on homework each week?

We will be looking at this feedback over the next week and using it to make adjustments to our remote provision.

Alongside this, we are also intending to send out a brief survey to parents to get your feedback on our remote learning provision – further details to follow.

Thank you to everyone who attended our Year 12 parents on Wednesday, using our new booking and video conferencing system. It was a good opportunity to acknowledge all the hard work that Year 12 have been putting into their A level studies and I trust everyone found it a useful evening.

Finally, a reminder that you should continue to report absences in the normal way. For any Covid-19 related absences, please use the email address covid@wallingtongirls.org.uk. Can I also remind parents that the school remains open for vulnerable children and the children of critical workers? If you are classified as a critical worker and would like your child to be on site to access their remote learning let us know as soon as possible via info@wallington.org.uk

Kind regards

Mr R. V. Booth
Headteacher

REMINDER REPORTING STUDENT ABSENCE AND MEDICAL APPOINTMENTS

Parents and carers are asked to ensure that they report any medical appointments and absences by 9.30am using the WHSG Attendance attendance@wallingtongirls.org.uk email address. This will ensure staff are aware that your daughter is not available for lessons.



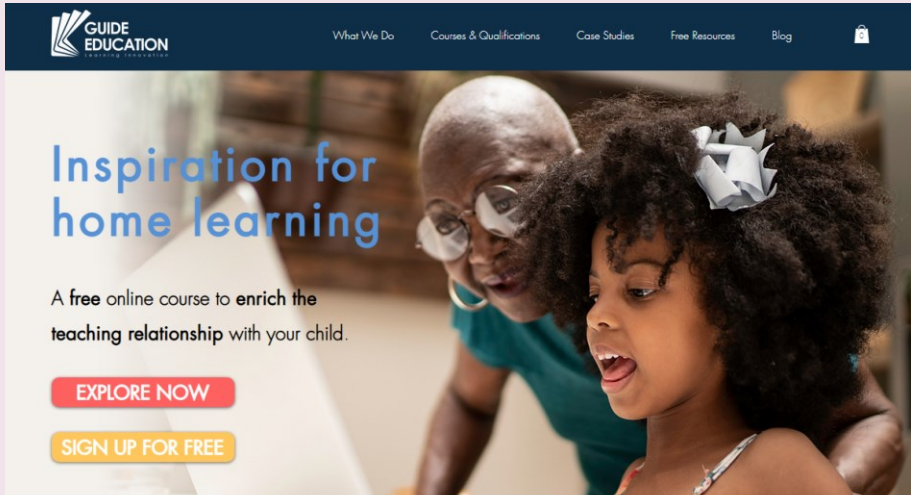
**YOU MAY NOT
CONTROL
ALL THE EVENTS
THAT HAPPEN TO YOU,
BUT YOU CAN DECIDE
NOT TO BE REDUCED
BY THEM**

MAYA ANGELOU

THE WALLINGTON WEEK

REMOTE LEARNING RESOURCES

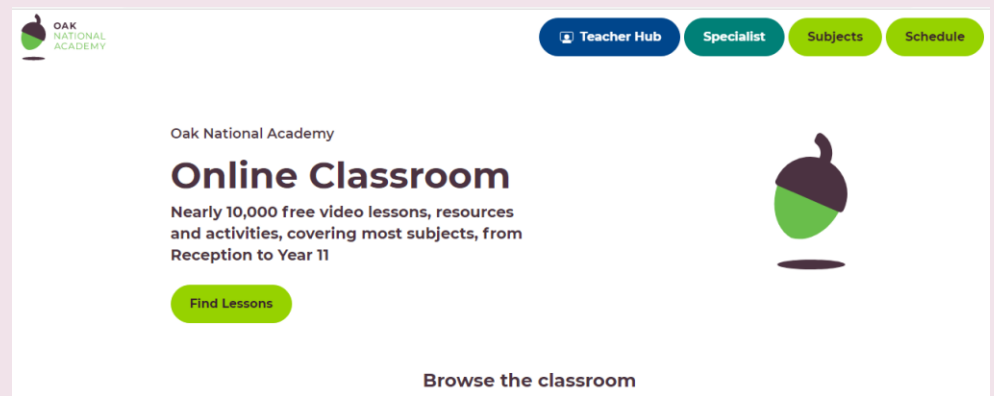
Below are some links to some great online resources that we wanted to highlight to Parents/Carers.



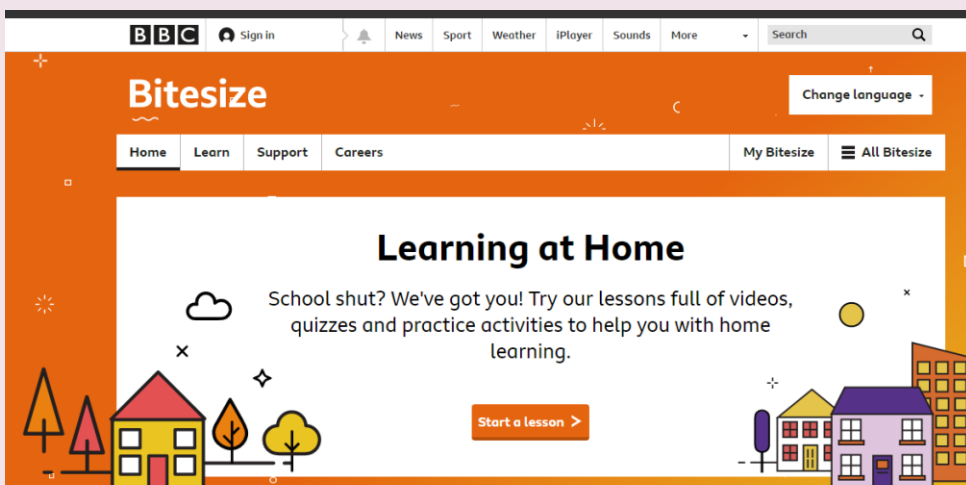
The screenshot shows the Guide Education website. At the top, there is a navigation bar with links for 'What We Do', 'Courses & Qualifications', 'Case Studies', 'Free Resources', and 'Blog'. Below the navigation bar is a large banner image of a man and a young girl looking at a laptop. The text on the banner reads 'Inspiration for home learning' and 'A free online course to enrich the teaching relationship with your child.' There are two buttons: 'EXPLORE NOW' and 'SIGN UP FOR FREE'.

[Parent Support Course | Guide Education](#)

[Oak National Academy Online Classroom \(thenational.academy\)](#)



The screenshot shows the Oak National Academy website. At the top, there is a navigation bar with links for 'Teacher Hub', 'Specialist', 'Subjects', and 'Schedule'. Below the navigation bar is a large banner image of an acorn. The text on the banner reads 'Oak National Academy Online Classroom' and 'Nearly 10,000 free video lessons, resources and activities, covering most subjects, from Reception to Year 11.' There is a 'Find Lessons' button and a 'Browse the classroom' link.



The screenshot shows the BBC Bitesize website. At the top, there is a navigation bar with links for 'Home', 'Learn', 'Support', and 'Careers'. Below the navigation bar is a large banner image of a house and trees. The text on the banner reads 'Learning at Home' and 'School shut? We've got you! Try our lessons full of videos, quizzes and practice activities to help you with home learning.' There is a 'Start a lesson' button.

[Educational programmes to help children learn at home are available from the BBC.](#)

THE WALLINGTON WEEK

CAREERS INFORMATION

This is a webpage on the Institution of Civil Engineers website which contains information, including videos, about (civil) engineering careers.

Now available: ICE Inspiration Series for 16-18 year olds | Institution of Civil Engineers

Now available: ICE Inspiration Series for 16-18 year olds

ICE is proud to launch the complete set of videos from our popular Inspiration Series.



EDT Industrial Cadets

Virtual ROUTES INTO STEM

Helping young people make an informed choice on the right STEM pathway for them

Flexible study course between 5-21 February 2021

A banner for the "Virtual ROUTES INTO STEM" course. It features the EDT and Industrial Cadets logos, a circular logo with three wavy lines, and a collage of four photos showing students in various STEM activities. The text highlights that the course helps young people make informed choices and is a flexible study course between February 5-21, 2021.

Virtual Routes into STEM February course is an innovative course that provides year 9 and 10 students with a clear understanding of the amazing opportunities offered by STEM based careers. The course allows students to recognise the variety of opportunities available to them after taking their GCSEs, it will provide them access to key information on different pathways: College and University and Apprenticeship routes through industry.

We would like to share with you some resources which might help families support our young people in these unusual times. The Education Wellbeing Practitioners in Sutton have created 3 videos which may be useful and can be viewed online.

Supporting your teenager with lockdown and the return to school: <https://www.youtube.com/watch?v=4xA4WWGpAcY&t=21s>

This is a video for parents, carers, or those working with adolescents, offering guidance around how to support teenagers during lockdown and help them cope with Covid-19. We also look at how to support them with the transition back into school.

Parenting teens in times of uncertainty: <https://www.youtube.com/watch?v=HcW-3Dnh9sl>

This video is for parents and carers of teenagers recorded from a live workshop. It will look at the following the topics: supporting your teenager with sleep, how to enable teens to hear what we're saying, recognising anxiety and low mood in teens, how to respond to heightened teen emotions

Supporting your teenager with anxiety: <https://www.youtube.com/watch?v=X5ZTggCEG98&t=286s>

This video is aimed at the parents or carers of teenagers and provides some ideas as to how you can support them if they are experiencing worry or anxiety.

WEEK 3 CHALLENGE

PAPER PICK UP



Grab a piece of A4 paper and fold it in half so that it mimics a 'book'. Without using your hands, try to pick up the piece of paper. Send your videos in to win prizes!!! Lets see how fast you can pick up the paper...

Go on YouTube and search 'The Paper Pick-Up Challenge' to watch some videos :)



THE WALLINGTON WEEK

ENRICHMENT

The Newnham College, Cambridge Modern and Medieval Languages Essay Prize 2020-21

- **Who?** Open to all girls currently in Year 12
- **What?** An essay in English (1500 -2000 words) in response to an extract from the beginning of Italo Calvino's *If on a winter's night a traveller* (1981), translated by William Weaver (2007). Good essays will present a clear argument using specific examples, but beyond this many different approaches are welcome.
- **How?** Entrants should contact Mrs Hopgood, Director of Languages for full details of the task.
- **When?** The deadline for receipt is 12pm on Wednesday 10th March 2021
- **The Prize?** A first prize of £400, a second prize of £200, and third prize of £100.



INTERMEDIATE MATHEMATICAL CHALLENGE

During the week beginning 1st February students from all of Years 9 and 10 and a selection from Year 11 will be sitting the Intermediate Mathematical Challenge. As you know, this is a public exam (you may have sat it or the Junior Mathematical Challenge before) that we normally sit working on paper but this year we have the opportunity to complete an online version.

Year 9 will be sitting it during their maths lessons on Monday 1st Feb

Period 1 9 Joh, 9 Sea, 9 Pan

Period 4 9 Ath, 9 Bro, 9 Cur

Period 5 9 Sha

Year 10 will be sitting it during their maths lesson on Thursday 4th Feb Period 1

Year 11 will be sitting it during their maths lesson on Tuesday 2nd Feb Period 5

Classes that are taking part in Year 11 include 11Ma1, 11Ma2, 11Ma3, 11Ma4, 11Ma5



You will complete a practice paper in one of your maths lessons or as a homework before the test to help you get used to the style of questions and how to work online. Nearer the test date you will be sent an email with a link to the test, detailed instructions of what to do and a reminder of the rules. Meanwhile if you would like to look at some more past papers you can use this link

[Intermediate Mathematical Challenge archive | UK Mathematics Trust \(ukmt.org.uk\)](https://www.ukmt.org.uk/intermediate-mathematical-challenge).

Good luck and we hope you enjoy the questions,

Exams and Maths Department

THE WALLINGTON WEEK

ENRICHMENT

Eureka Question 1 Answers

1. **FALSE** Pythagoras actually sacrificed a hecatomb (100 oxen). Though Pythagoras was generally against animal sacrifice, he was so happy at the proof of his theorem that he wanted to thank the Gods.
2. **TRUE** Pythagoras thought that all beings had souls, and so forbid his followers from eating meat or fish. Beans were also prohibited as Pythagoras believed that humans and beans were created from the same materials.
3. **FALSE** They had to take a vow of silence for five years! During this period, they were only allowed to listen to Pythagoras teach from behind a veil. Eventually, they would graduate and become mathematikoi, and were allowed to see Pythagoras and participate in the mathematical research.
4. **FALSE** Women were allowed equal membership in the brotherhood. According to some sources, Pythagoras married one of his gifted students, Theano of Croton.
5. **TRUE** Before joining the brotherhood, you had to give up all your possessions. Anyone who left would be given twice the wealth they had surrendered and a tombstone would be erected in their memory.
6. **TRUE** It is widely believed that Pythagoras drowned one of his students for revealing a secret discovery.

Thank you to everyone who sent in answers! It was wonderful to read all the research you did and I hope you had fun. Well done especially to Shazia in 8 Pankhurst for making the dodecahedron opposite and to Lakshmi in 7 Athena for her amazing proof. I am still reading some responses, so don't worry if I haven't replied to your email yet. Housepoints are being awarded to: Avni (9 Athena), Ashwika (7 seacole), Tharmavi (8 Sharman), Smriti (7 Pankhurst), Arianna (7 Curie), and many more...



This week's challenge is slightly harder, but will be quite rewarding to complete.



The Enigma Code Machine

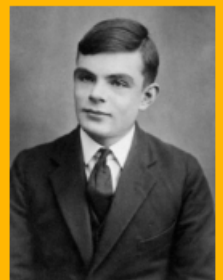


The Enigma machine was a very special encryption machine that was used by Germany and its allies during WWII. It allowed you to type a message into it, and it would automatically encrypt each letter with a polyalphabetic substitution cipher. Someone else who had a machine that was set up to match yours could type the encrypted letters into it, and the machine would show them your original message.

The Enigma was so secure because in order to decrypt a message, you would need to set up your machine exactly as it was when it was encrypted. There are 158,962,555,217,826,360,000 (**~159 quintillion**) different ways to set up an Enigma machine!

This meant that if you had intercepted a code that was encoded with the Enigma, there were 158,962,555,217,826,360,000 different ways it could have been encoded. The Germans were so confident that this could not be broken that they used the Enigma for all sorts of communication. However, the codebreakers at Bletchley Park (most notably Alan Turing) were able to build a machine that exploited a key flaw in how the machine was built. This flaw was that the Enigma could never encode a letter as itself (i.e. that an A in the original message would never appear as an A in the ciphertext).

Some historians believe that cracking the Enigma was the single most important victory by the allied powers in WWII, and that it helped shorten the war by two years.



Cryptography is still a very important topic in Computer Science, although it has evolved a lot since the war. If you found this fun, and want to learn more about ciphers, and modern cryptography, the Khan Academy has a very interesting course covering this: <https://www.khanacademy.org/computing/computer-science/cryptography#cryptochallenge>

THE WALLINGTON WEEK

ENRICHMENT

EUREKA QUESTION 2

44 34 35 43 15 13 42 15 44 24 23 11 51 15 43 15 13 45 42 15 14
 44 23 15 11 42 44 24 31 31 15 42 54 44 42 34 34 35 43 21 34 42
 11 12 31 24 44 55 25 42 24 15 22 11 44 44 11 13 25 34 33 44 23
 15 11 42 14 15 33 33 15 43 24 43 44 23 15 31 45 21 44 52 11 21
 21 15 42 15 11 14 54 43 15 33 14 24 33 22 13 34 34 42 14 24 33
 11 44 15 43 43 34 34 33

\	1	2	3	4	5
1	A	B	C	D	E
2	F	G	H	I	K
3	L	M	N	O	P
4	Q	R	S	T	U
5	V	W	X	Y	Z

3. Cryptic sequences of numbers were found inside a special code book. The table opposite was also in the code book.

5. Intercepted 28/01/1940

This is the hardest to decode. Make sure you have solved (4) first as it contains some useful information

LLZAMTLOAENAIECI
 TTVAITLIASNAULEAI
 TGKXHIRFDSKTAEO
 NGRFEBRTYECOET

4. Coded message Intercepted 16/04/1940

YMJFQ QNJXF WJHQT XJYTH WFHPN
 SLTZW HTIJX BJBNO QGJXM NKYNS
 LYTFY WFSXU TXNYN TSHNU MJWPJ
 DBTWI EJGWFX

Good Luck! Try to identify what type of code each message is first as that will help you a lot (solving the codes in order will be useful). Feel free to use the internet as there are many websites that will save a lot of time for you.

If you are stuck, you can email me for clues. **You don't have to decode everything to earn housepoints!** Email any decoded messages to nkanaginhal15@wallingtongirls.org.uk and Cc stucker@wallingtongirls.org.uk



EUREKA QUESTION 2

During WWII, each nation used multiple codes and ciphers to keep their plans secret. Cryptography was very important to the Germans whose initial success was due to their secure communication. The Allies soon realised that breaking these codes was going to be the key to winning the war. This week, you are going to pretend that you are one of the many women employed at **Bletchley park**, the centre of the Allied code breaking operation. There have been rumours that the Germans are planning a large attack, but the exact details are unknown. Try to crack the following coded messages that have been intercepted by other officers to find the **location** of this attack. **NB: you do not have to solve all the codes!** Try as many as you can and submit the decoded text to earn housepoints. I recommend solving them in order as they increase in difficulty.

1. Intercepted radio communication between two german bases 03/04/1940

.....

2. Code intercepted
 10/04/1940

UWJUFWJ DTZW YWTTUX KTW GQNYEPWNJL FYYFHP. BJ BFSY YT GWJFP YMJ
 RFLNSTY QNSJ. YMNX NX BJFPJXY SJFW GJQLNZR. BJ HFS XZWUWNXJ YMJ KWJSHM
 GD HWTXXNSL YMJ FWJSSJX KTWJXY FSI FYYFHPNSL BJXY. RTWJ IJYFNQX YT
 KTQQT.B.

THE WALLINGTON WEEK

ENRICHMENT



As you may already know, climate change is a huge problem in today's society and we are trying to find many solutions to lower the impacts it has on our environment. Energy use is one of the main contributors to climate change as many households over the nation use energy for electricity. Using electricity more efficiently will help reduce the amount of fuel needed to generate electricity and the amount of greenhouse gases emitted.

So here are the top 3 ways to use less energy and save the environment...

1

RENEWABLE ENERGY:

RENEWABLE ENERGY CAN BE USED AGAIN AND AGAIN AND WON'T EVER RUN OUT. SOLAR, WIND, BIOMASS AND TIDAL ARE ALL EXAMPLES OF RENEWABLE ENERGY. THERE ARE MANY WAYS YOU CAN COLLECT THIS ENERGY SUCH AS THROUGH SOLAR PANELS OR WIND FARMS.

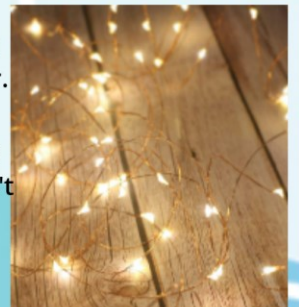
THE GREAT THING ABOUT THIS IS THAT IT IS INFINITE, NATURAL AND DOESN'T REQUIRE AS MUCH MAINTENANCE AS NON-RENEWABLE ENERGY SOURCES. THE MOST IMPORTANT FACT ABOUT RENEWABLE ENERGY IS THAT IT DOESN'T RELEASE ANY GREENHOUSE GASES INTO THE ATMOSPHERE.

ABOUT 14% OF GLOBAL PRIMARY ENERGY CONSUMPTION CAME FROM RENEWABLE, HYDRO AND NUCLEAR ENERGY IN 2016, ACCORDING TO THE BP STATISTICAL REVIEW OF WORLD ENERGY. FUN FACT: 1 WIND TURBINE CAN GENERATE ENOUGH ELECTRICITY TO POWER 1400 HOUSES.

2

Lighting:

LIGHTING ACCOUNTS FOR 18% OF THE ELECTRICITY CONSUMPTION OF A TYPICAL UK HOUSE. THERE ARE MANY DIFFERENT TYPES OF LIGHT BULBS, BUT MOST OF THEM HAVE DIFFERENT EFFICIENCIES. LIGHT EMITTING DIODES (LEDs) HAVE AN EXTREMELY LOW WATTAGE, LAST LONGER AND EMIT A BRIGHT, WHITE LIGHT, WHEREAS ONLY 5% OF THE ELECTRICITY USED BY OLD-FASHIONED TUNGSTEN BULBS BECOMES LIGHT AS ALL THE REST IS LOST AS HEAT. YOU COULD SAVE £55 A YEAR BY USING ENERGY EFFICIENT LIGHT BULBS IN YOUR HOUSE.



3

DRAUGHTS & VENTILATION:

Draughts are uncontrolled ventilation and are also the cause of considerable heat loss. They can also lead to discomfort and higher than necessary heating bills. Draughts are easy and cheap to fix but we tend to learn to live with them.

It's blocking up any holes that let warm air out and cold air in, but be careful of air bricks that allow the circulation of air under the floor of a building. Draught excluders can be bought or made to stop heat from escaping.

Ventilation is the controlled entry of fresh air into a building. It is talked about in terms of air changes per hour. A modern building needs a ventilation rate of about one air change an hour. If you don't have good ventilation in a room, it's better to turn off the heating and open the window.

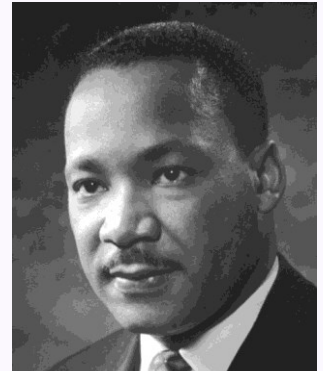
THE WALLINGTON WEEK

ENRICHMENT

DID YOU KNOW?

18th Jan 2021 was a national holiday in America in honour of Martin Luther King Jnr's birthday.

Martin Luther King was a Baptist minister and activist who became the most visible spokesperson and leader in the civil rights movement from 1955 until his assassination in 1968. King is best known for advancing civil rights through nonviolence and civil disobedience.



Find out more about Martin Luther King Jnr below

[Martin Luther King Jr: Quotes, Assassination & Facts - HISTORY](#)



Are you a student who would be keen to join **World's Largest Lesson's 2021 Student Advisory Panel**? We would love to hear from you! We are looking for 5 students aged between **11-14** to join a panel and work on a project right now!

What's involved?

We will ask you to join x3 Zoom calls over the next 3 months.

The first Zoom call will be for everyone to introduce themselves, get to know each other and learn more about the Advisory Panel role.

The second two calls will be asking for student input and feedback on an exciting new project that we're launching in March.

We will work to accommodate different time zones.

How Do Students Apply?

If you would like to join, please write a maximum of 75 words explaining why they would like to join the WLL 2021 Student Advisory Panel.

We will also need each student's
First Name
Age
Gender
Location

When's the deadline?

Please email all applications to kinvara@project-everyone.org by **12pm GMT Monday 18th January 2021**

THE WALLINGTON WEEK

ENRICHMENT

Write Your Own Historical Fiction Competition 2021



Winners of the national competition will each receive a cash prize of £25 and an engraved Bath Aqua Blue glass paperweight or bookmark (or equivalent).

Deadline

Entries need to be submitted by the end of the day on the **1st March 2021**

and submitted to enrichment@wallingtongirls.org.uk

Winners will be announced and some published in the following Wally Week and student bulletins. Winners of the national competition will be announced at the beginning of June

Judges are looking for:

- **Historical accuracy** – even down to the choice of names characters are given and any props additional to the historical setting
 - **A riveting read** with a good plot!
 - **A convincing story** - i.e. is it plausible that these events and/or this character could have existed at the time?
 - **Use of historical knowledge** to feed the plot, context and character
 - **Effective use of historical vocabulary and literary conventions**, including where dialogue is included in the story
- Creative and interesting perspectives of story-telling.** In the past we have received an entry telling the story of a siege from the perspective of the castle!

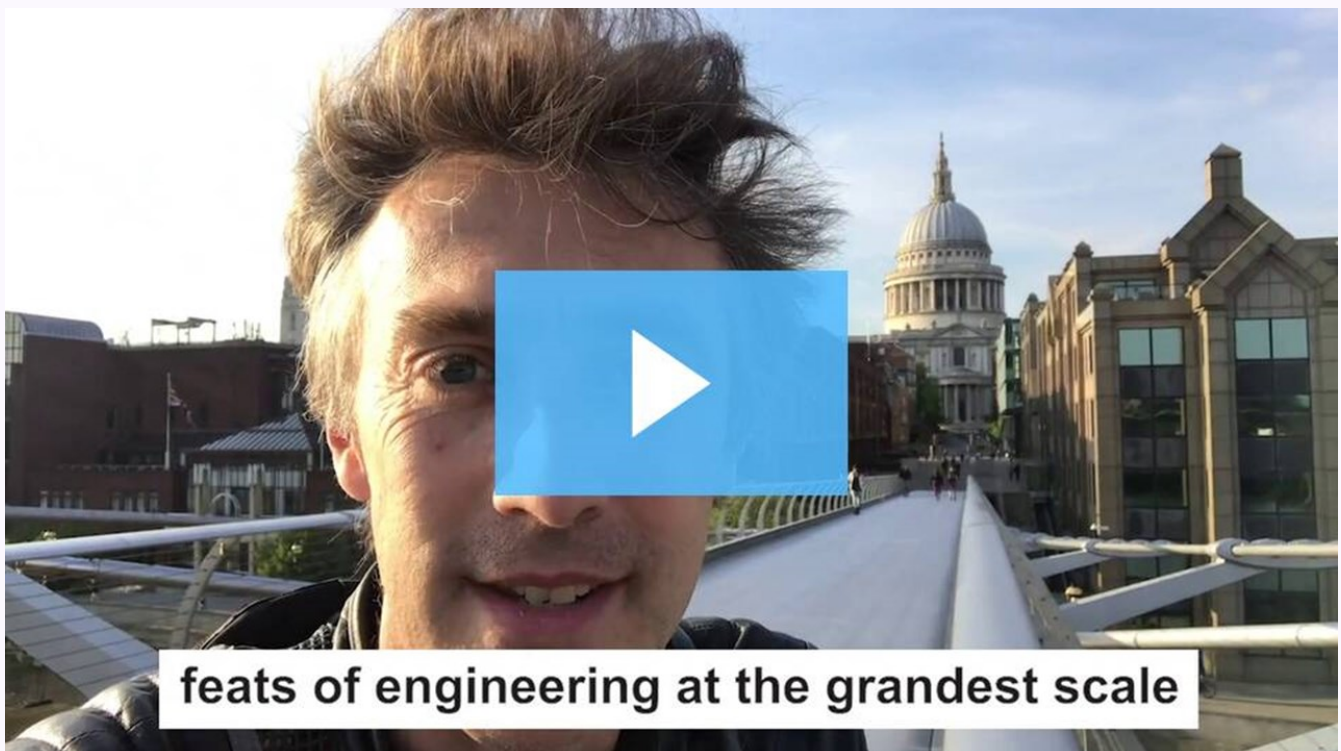
Are you a history buff? Do you like creating a good old yarn? Then this national competition opportunity may be for you! Students from all years are invited to write a historical story, which can be set in **ANY*** period or place in the past, so the story can fit in with and extend any historical topic you may be studying. The story should be a minimum story length of 400 words and a maximum word length of 3500 words. We regret that entries that go over this word limit may not be considered.

Prizes

All entries submitted will get 3 house points
5 Winning students for WHSG will receive a £10 book voucher and 10 house points and will also be put forward to enter the national competition.

To all students (and adults)

Here is a quick engineering challenge for you to do at home. How far will your airplane fly?
Have fun. Mrs Caspary



feats of engineering at the grandest scale

<https://www.stem.org.uk/home-learning?wvideo=6qpwz3qt6n>

THE WALLINGTON WEEK

ENRICHMENT

We hope you are all keeping safe and well and trying some of the physical and wellness Challenges we launched at the beginning of January. Don't forget to send in any evidence or pictures of you having a go that we can publish next week. You could be in to win a small care package sent home at the end of January!

A reminder of the wellness challenges are below. You can catch up on the physical challenges in last weeks Student Bulletin or Wally Week.

Mental Challenges

As we start a new year, it is always a good time for a bit of reflection; This year more so than most. We have all been through a lot over the last year so take some time out and take stock of how that has impacted on you and your family.

We have set up some challenges for you to think about and consider every day over the course of this month. Have a go at trying some of these out over the course of January and share any pictures, accounts or good deeds with us. Lets see if we can all be a bit more positive by the end of January.



THE WALLINGTON WEEK

Out and About 2

Think of your outing yesterday. Draw or print out a picture as a memory. If you feel down in the future, look at the picture and remember that day.

Personal Boost

Make a list of the things that you are good at. Don't be shy, everyone is good at something whether it is talking, listening, drawing or make up.

Future You

What is one choice you could make today that your future self would look back on with pride?

ENRICHMENT

Family and Friends

Think of a friend or family member that may need a boost and share your comfort playlist.

Take a break

Slow things down today and take a break. Spend some time with just you, reading a book or listening to music.

Role Models

Write down your role models. List out any qualities you think you share with them.

Soulful Sounds

Create an emergency music playlist for times when you need some love and comfort.

Reflect

Think of the hurdles that you overcame in 2020. When you think about it, you will find a few! Be proud of how you overcame them.

Be proud

Moving forward, be proud of you, your individuality and personality. Do not put yourself down!