



Retford Oaks Academy
Dedicated to Excellence

SUMMER CHALLENGE 2019

Optional homework projects for the chance to earn extra points!

Once you have completed the task(s), please email evidence in a suitable format to homeworkchallenge@retfordoaks-ac.org.uk.

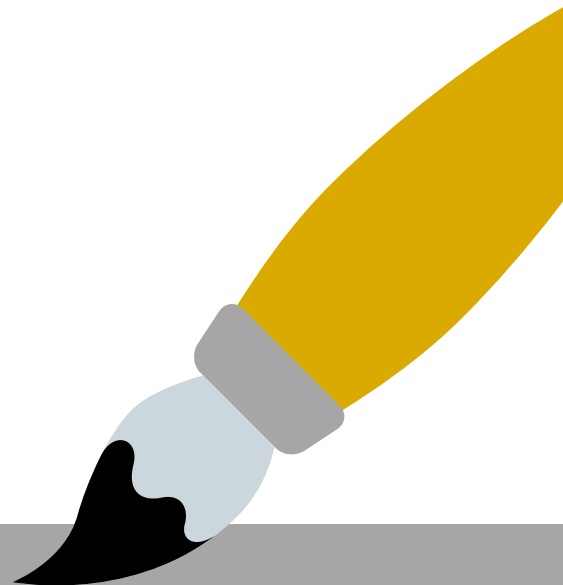
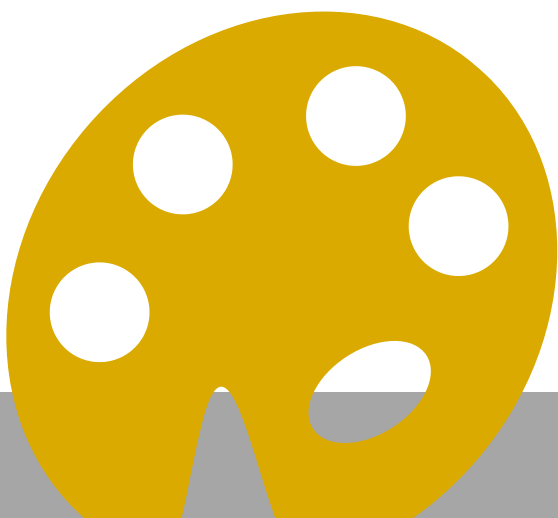
In September, each student will be awarded points based on the quality and quantity of the tasks completed.

Good luck and have a fantastic summer!

ART

- Visit an Art gallery and draw one of the paintings or sculptures you see
- Create a pencil sketch of your favourite famous person.
- Create pancake art! Watch a YouTube video on how to do this and have a go at creating your own - photograph it before tucking in to enjoy your treat
- Cut in half an interesting piece of fruit/vegetable and draw the cross section in detail
- Explore the work of an artist of choice, try to create an accurate 'artist copy' of their work
- Draw a simple line drawing of an animal and add zentangle patterns into it
- Take yourself on a walk to find an interesting view. Create a landscape drawing of what you see

Don't forget to photograph your work as evidence!



ACCELERATED READING

- Write a book review of your favourite book
- Find the longest words in your book and see how many other words you can make from it
- Read a newspaper – take a photograph as evidence
- Read to someone else – take a photograph or sound recording as evidence
- Make a puppet of your favourite book character
- Read a book that has been made into a film – write a comparison between the two



BUSINESS AND ENTERPRISE

- Find a news article about the economy and Brexit
- Take part in an enterprising activity – start your own business, earn some money doing jobs for people you know
- Find a new business in your local area – take photos and research what customer needs are being met?
- Spot a new invention or innovation – how is this new product or service meeting the needs of customers?
- Design a new business, invention, marketing campaign – what would your advertising look like?



DESIGN AND TECHNOLOGY

At the moment, broken pens are always thrown away at school. We would like to change this. Your challenge is to design a wrapper that could go on the outside of a Pringles tube (you get to eat the Pringles first!). The design should be eye-catching and should appeal to teenagers so that they are aware of it. It does not need to be very obvious that it is just for recycling pens as there will be one in every classroom and students will (or should) know what they are for.



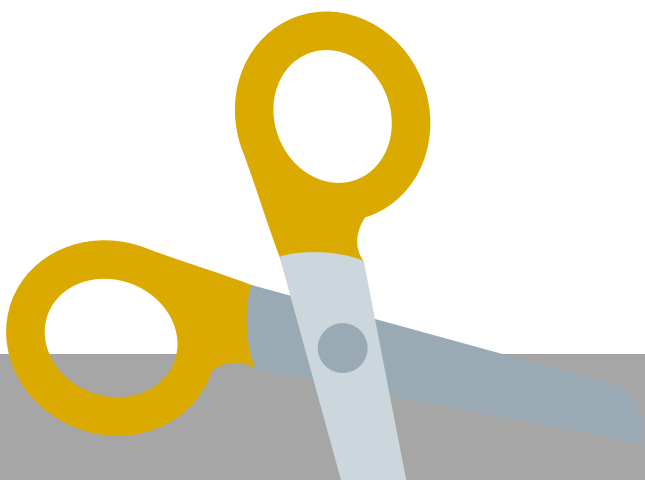
You could:

1. Just design the graphics
2. Make an actual example, better than the one shown at home and bring it in to your favourite subject
3. Make it educational, about the key dates of the Russian Revolution etc.

Engineering Challenges from the James Dyson Foundation

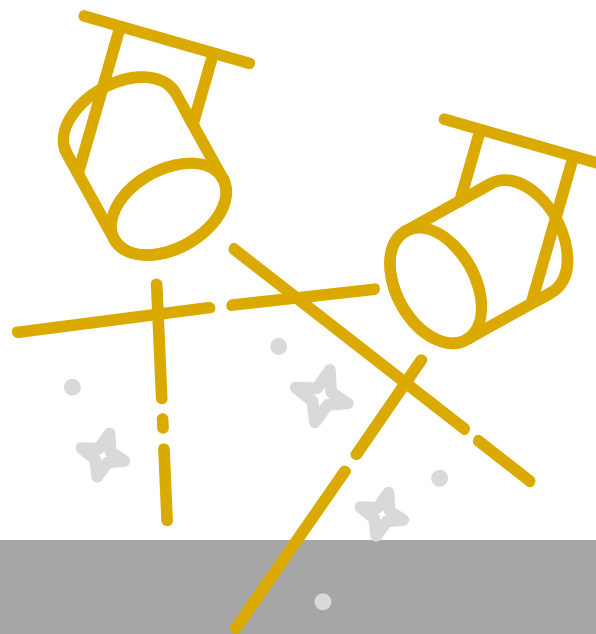
Follow this link and complete as many of the tasks as possible. You can have great fun making a marble run, a balloon racer and many more tasks.

<https://www.jamesdysonfoundation.co.uk/resources/challenge-cards.html>



DRAMA

- Go to the theatre (take a photo of yourself there)
- Write an evaluation on a piece of live theatre you have watched
- Write a review on a TV drama/ series you have watched
- Design a set or costumes for a performance piece you have created this year
- Create a gameshow for one of the topics you have studied this year
- Create a crossword embedding all the key terms you have learnt throughout the year
- Read a play and create a storyboard to tell the story



ENGLISH

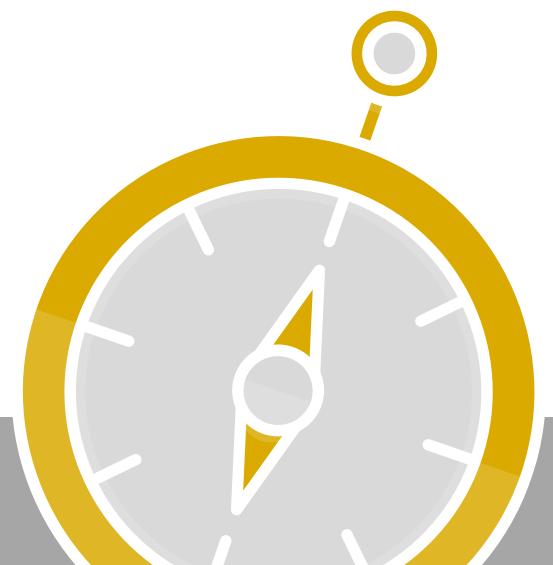
Once you have completed a task – you will need to make a note of what you found easy about it and what you found a challenge and submit it with your evidence.

- Read a fiction book and turn it into a poem or song
- Create your own horror character. Pay particular attention to detail including facial expressions, clothing, body, props
- Create a board game to test somebody's knowledge of an English topic
- Choose a setting (place) from a fiction or non-fiction book that you have read and build a diorama of that place (for example, you could have a go at building the Gryffindor common room from Harry Potter!)
- Design a range of promotional merchandise for a fiction book of your choice (this could be clothing, keyrings, stationery...)
- Research a modern playwright – include details about their life, the writing that they produced, and any pictures to accompany your ideas
- Research key information about International Women's Day
- Explore Victorian recipes – can you experiment with making something to photograph?



GEOGRAPHY

- Litter pick in your local area
- Pick up 5 pieces of rubbish each time you take a walk
- Survey a local ecosystem: temperature, rainfall, wind speed/direction, animals and plants found there, soil type
- Keep a weather diary for a week. (temperature, cloud cover, rainfall, wind speed/direction)
- Research a country - climate, animals, population, culture, major cities, why is it an important country
- Create a geography board game. Ideas could be monopoly based around a country, question cards about the country, snakes and ladders with question and answer cards...
- Dominoes where the questions match up to answers
- Write instructions for taking grid references
- Plan a walk or journey using an OS map. Write the directions using scale and compass directions. If safe to do so, take the walk/journey and take photos. Plot the photos on the map
- Watch a film or documentary with a link to geography - write a review about it, see if any information in the film is actually wrong (some geographical information in films is wrong!) - continued on next page...



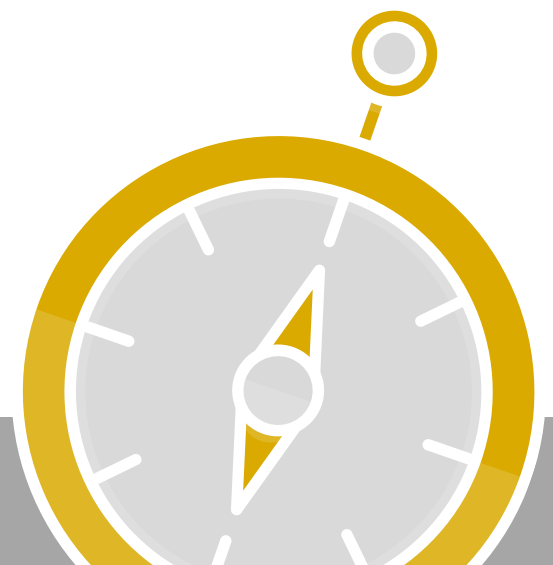
GEOGRAPHY

Documentaries

Life in the Blue; Dirty Money (15); The Future of Water; Islands of the Future; Wild Japan; Wild Australia; Baby Animals in the Wild; Planet Earth; 72 Dangerous Places to Live; Auschwitz - the Nazis and the Final Solution; Metropolis; Rotten (15); Wild Alaska; Wild Caribbean; The Hunt; Frozen Planet; Shark (15); Tales by Light; One Strange Rock, Life; Africa; Blue Planet; Planet Earth II; You vs. Wild; Our Planet; Dark Tourist (15)

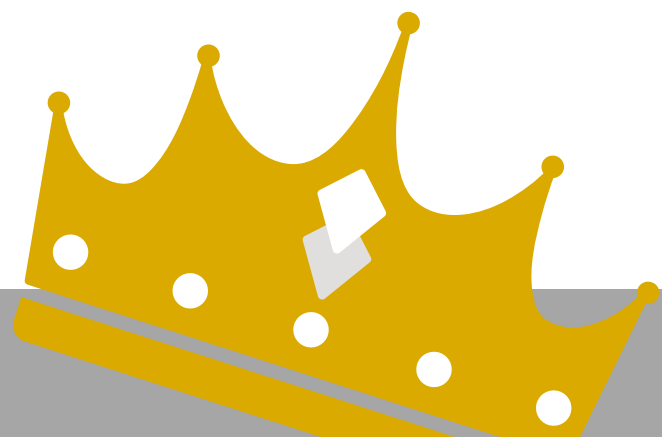
Films

Madagascar; Madagascar 2; A Turtle's Tale; Virunga (15); What the Health; Cowspiracy; Before the Flood; Bee Movie; Happy Feet; Happy; The Ivory Game; Into the Inferno; Chasing Coral; Naledi; Mission Blue; National Parks Adventure; Peru - Tesoro Escondido; The Legend of Tarzan; Adrift; Baywatch; Mowgli; Jumanji; Last Holiday; Over the Hedge; The Revenant (15); The Impossible; The Tourist; Fast and Furious 6; War Dogs (15); Jurassic Park - the Lost World; Jurassic Park; Eat Pray Love (15); Welcome to the Jungle (15); The Holiday; The Bucket List; The Fault in Our Stars; Behind the Curve; The Climb; 22 July; The Boy who Harnessed the Wind; Lion; Only the brave



HISTORY

- Read a book on a period of history you enjoy. Write a summary of your main findings / or design a poster for the same purpose
- Watch a history documentary (A Level students could watch the three-part series on the downfall of Charles I on BBC iPlayer). Write an overview of your findings or design an information leaflet based on what you found out
- Plan and write your own episode of Horrible Histories, based on your favourite period of history
- Design and build your own medieval castle. Create either a motte and bailey castle, a stone keep or a concentric castle. Use cardboard, plasticine or papier-mâché. You could even use Minecraft - just remember to get evidence of your creation!
- Read a book on a period of history you enjoy. Make a book report using your mobile phone and film your report
- Design and make a model of a buffalo out of plasticine or papier-mâché. Label this to show the various ways the plains Indians made use of the buffalo
- Design and create a monument that celebrates the contributions of women in the First World War
- Use a range of history websites to write a newspaper story of an important event from history
- Use your phone to recreate famous or infamous scenes from history



MATHS

- Draw an acute angle and an obtuse angle
- Write down the first 15 square numbers
- Ben has three 50ps and three 20ps. How much money does he have?
- $28 + 73 =$
- $93 - 25 =$
- $5 \times 19 =$
- $240/20 =$
- Write down the next term in this sequence and simplify the sequence:
256, 128, 64, 32...
- Round 272 to the nearest 10
- Round 272 to the nearest 100
- The rule for continuing a sequence is multiply by 4 then subtract by 3. The first term is 10. Work out the second term.
- Take 34 away from 141
- Add 49 and 384
- Jim buys a pizza. He pays with a £10 note. He receives £2.41 change. How much did the pizza cost?
- Work out 10% of 60
- Work out 50% of 11
- Ben is organising a raffle. He has 100 tickets, he sells each ticket for 50p. The cost of organising the raffle, including prizes, is £15. Ben sells all his tickets. How much profit does he make?
- Convert 5 kilometres into metres
- Convert 8 metres into centimetres
- Write down one number from the list that is a multiple of six. Write down the square numbers from the list: 12, 8, 16, 3, 19, 36
- Work out $6.8 - 1.47$
- Michael has 12 five pence pieces and 12 twenty pence pieces. How much money does Michael have?



MODERN FOREIGN LANGUAGES

- Watch one of these films: Coco; The Book of Life; Zipe and Zape Adventures; Une Vie de Chat; Kirikou et la Sorcière; Loup; Lola Rennt
- Go to your local supermarket and buy a french cheese, German sausage or Spanish cheese to try
- Go round your local area and do a survey about how many people speak more than one language. If not many do, could you make a resource to tell your neighbours why learning a language is important?
- Listen to songs in different languages (remember there are foreign versions of English songs i.e. a lot of Ed Sheeran songs have been translated to German)
- If you are going on holiday, prepare a list of phrases you will need, as well as any phrases your parents or carers might need. Ensure you teach them their phrases as well
- Find out lots of wonderful and weird facts about languages and create a quiz to play with your friends
- Visit the Arsenal/Chelsea websites and research some of the work they do to promote languages
- Create a brochure of somewhere you would like to go in the world. Take your time researching and be sure to include currency, flight time and things to do there
- Using Duolingo, try and learn basic words of a different language. Could you come back in September and count to 50 in Japanese?



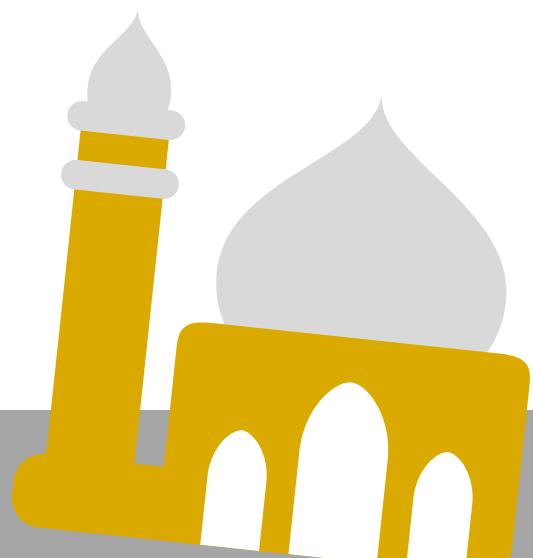
PE

- Watch a sporting event and produce a newspaper report on detailing what happened
- Create a poster advertising a sport you think needs more publicity
- Choose a sport and think about what the ideal body is to be successful. Be as creative as you like and create a representation of this
- Create a handbook on the essential skills needed for a sport of your choice. Include key points of how to perform the skill and diagrams
- Create a teaching card for a skill you studied this year in PE that you think could be used by younger students covering this topic next year
- Think of a new game that could be used in PE lessons and create a resource sheet on how this is done
- Write a biography of a sportsperson you know of



RELIGIOUS EDUCATION

- Visit the National Holocaust Centre in Laxton - <https://www.holocaust.org.uk/>
- Research a famous Religious figure, for example Dr Martin Luther King, Anne Frank, Jesus
- Visit a place of worship
- Years 7-9: research aspects of world religions. Christianity - the creed, inside a church, person and life of Jesus, Christian festivals; Islam - 5 pillars of belief and practice; aspects of Sikhism - lives of Guru Nanak, Guru Go bind Singh, worship in the gurdwara; Judaism: Kosher food laws, Shabbat, 613 Mitzvot, the synagogue, Abraham, Moses, Passover (Pesach), Rosh Hashanah, Yom Kippur; Buddhism - Life of the Buddha (Siddhartha Gautama, three marks of existence (universal truths), four noble truths and noble eightfold path
- Years 10-11: research Christian beliefs and practices, aspects of Hinduism (he Trimurti, worship in the mandir, Diwali, worship at home)
- Year 11: research issues of good and evil; capital punishment (Christian and Jewish views); capital punishment case studies - Tim Evans, Derek Bentley, Ruth Ellis; prison reformers - Elizabeth Fry , Lord Frank Longford; Christian and Jewish beliefs on forgiveness; issues of human rights; Christian and Jewish beliefs on prejudice and discrimination (e.g. Holocaust: Judaism), Martin Luther King (Christianity) and teachings from both religions on wealth and poverty



SCIENCE

- Create a model, information leaflet on a science topic that you find most interesting
- Outline a new method for generating electricity
- Design a poster explaining the dangers in the laboratory and how to stay safe
- Write a poem about something you find interesting in science, such as remembering the elements of the periodic table
- Draw and label a new 'useful' genetically modified organism
- Read a science book and summarise what you have learnt in a creative way
- Write a song or create a video on a science topic you find interesting
- Create a mnemonic to remember the first twenty elements from the periodic table
- Plan a scientific investigation to look into a scientific theory you find interesting

