



Key Stage 4 Challenge Programme Tasks

Faculty	Challenge	What you need to submit	Contact
Maths	Solve the following puzzles: In the "Strange" family, each daughter has the same number of brothers as she has sisters. Each son has twice as many sisters as he has brothers.1) How many sons and daughters are in the family? When asked how old she was, Suzie replied, "In two years I will be twice as old as I was five years ago."2) How old is she?	A copy of your answers with your working out.	lsmy@raynespark.merton.sch.uk
	Using the website www.mathscareers.org.uk Find a career that interests you and write a paragraph as to why it interests you how Maths is involved in the role.	A copy of your paragraph.	lsmy@raynespark.merton.sch.uk
	Choose a number in the 3 times table. Take the numbers either side of your chosen number and find the difference in between their squares. Try it a few times. What do you notice? Can you prove it will always happen? Choose a number in the 5 times table. Take the numbers on either side of your chosen number and find the difference between their squares. Try it a few times. What do you notice? Can you prove it will always happen? Is there a similar relationship for other times tables? Write a report summarising your findings with your results.	A copy of your report.	lsmy@raynespark.merton.sch.uk
English	Lockdown has had an impact on us all. Write a formal letter to the Prime Minister on the subject of lockdown where you share your view of lockdown. AFOREST techniques should be used.	A copy of your letter.	escott@raynespark.merton.sch.uk



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	Research key elements of a job you would like to do and, with a parent/guardian, practise your interview skills. Record your interview.	A copy of your recording.	escott@raynespark.merton.sch.uk
	Trial of the Birlings for Eva Smith's death. Create a transcript of the trial of the Birling family. Consider both the prosecution and defence's arguments and questions. Include evidence from the text and contextual information.	A copy of your transcript.	escott@raynespark.merton.sch.uk
	Watch the video about how sun creams are made to help protect our skin from UV damage. Draw a flow chart to outline the necessary stages in making an effective sunscreen. https://www.youtube.com/watch?v=5--j4U9dthI&feature=emb_logo	A copy of your flowchart.	mcassini@raynespark.merton.sch.uk
Science	Choose one of these celebration events (or another event linked to Science) https://www.stem.org.uk/resources/community/collection/448551/celebration-events-promote-stem-careers and 1) research the history of that event 2) explain why it is important 3) identify 5 different careers related to this event 4) identify 5 key organisations/groups that would be interested in the event 5) create an information booklet advertising the event for the above organisations/groups.	A copy of your booklet.	mbowes@raynespark.merton.sch.uk
	Enter the 2020/21 Big Bang Competition. More information can be found here: Starting your project (thebigbangfair.co.uk) Submit and outline of your project.	A copy of your submission with any resources that you have used.	rjones@raynespark.merton.sch.uk



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Social Sciences	Interview somebody who works for the public service in a health care role. Ask them ten questions about their role and what is the most rewarding part. Create an information poster about their role and what qualifications are needed.	A Copy of your information poster.	saudley@raynespark.merton.sch.uk
DT	Enter the London Leaders Award. More information can be found here: https://leadersaward.com/regions/london/ Submit a design entry that includes a picture and description and a letter as to why engineers should consider your design.	A copy of your entry	rharris@raynespark.merton.sch.uk
	Create a leaflet for one D&T based job identify what qualifications you need and what the job entails. https://nationalcareers.service.gov.uk/explore-careers	A copy of your leaflet.	rharris@raynespark.merton.sch.uk
	Enter the Shell Bright Ideas Challenge. More information can be found here: https://www.shell.co.uk/sustainability/society/supporting-stem/bright-ideas-challenge.html#iframe=L2ZvcmlzL2JyaWdodF9pZGVhc19jaGFsbGVuZ2Vfc mVnaXN0cmF0aW9uXzlwMTg Mr Harris will collate the designs and submit to the competition.	A copy of your completed design entry.	rharris@raynespark.merton.sch.uk
Art	A View From My Window Window: Watch Grayson Perry's Art Club (Episode 4) of 4oD https://www.channel4.com/programmes/graysons-art-club/on-demand/71402-004 Create a piece of artwork in response to this programme and theme. The artwork can be produced in any materials or medium you have available. It	A copy of your photo and analysis.	ccurtis@raynespark.merton.sch.uk



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	does not have to be a realistic representation of the view from your window, it could be a fantasy or a view into your window. Take a photograph of your completed artwork and write an analysis to explain the meaning behind your piece.		
	Read the article from the Frieze Magazine 'Did the Pandemic Reinvent the Human Face?' https://www.frieze.com/article/did-pandemic-reinvent-human-face' Produce a piece of art work in response to this article. Pick up key concepts in the article e.g., the 'cyborgian face', how have we recreated our identity for a screen? The line between the digital world and reality. Include an analysis to explain how your ideas respond to the article.	A photo of your artwork and a copy of your analysis.	ccurtis@raynespark.merton.sch.uk
	Watch this YouTube clip https://www.youtube.com/watch?v=XBZk3G0c1kU about James Dyson. Choose a product that you think is well designed e.g an iPhone. Explain why this is a well-designed product. How has the designer/s thought about the consumer when creating the product? Do you think there is anything that could be improved in the design?	A written response to the clip.	ccurtis@raynespark.merton.sch.uk
Humanities	Jack the Ripper quiz: https://www.jack-the-ripper.org/quizzes.htm Take the online quiz to test your knowledge of Jack the Ripper. Think about the context of the murders.	A photo of your score.	gcollman@raynespark.merton.sch.uk
	Read the list of famous historical figures with their accompanying famous speech. Explain why you find these speeches inspiring. Send an email for a copy of the speeches.	A written response to the speeches.	gcollman@raynespark.merton.sch.uk



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	As an extension to your work on the nature of punishment through the ages, explain the theory of why these punishments were introduced at a given time in history. Write an extended piece of on the nature of punishments through the ages.	A copy of your writing.	gcollman@raynespark.merton.sch.uk
MFL	Research a recipe, write a menu, and cook a traditional Spanish or French dish.	A copy of your recipe, menu and photos of the meal.	rcarey@raynespark.merton.sch.uk
	Research and write a summary of a news article/video in the language you study about current affairs/something relevant going on in that country. This could be from anywhere in the French/Spanish-speaking world.	Written summary of article	rcarey@raynespark.merton.sch.uk
	Write a cover letter for a job that requires languages, saying why you are a good candidate. Describe the skills and attributes that you would bring to the job as a result of a language you have learnt, or another language that you already speak.	Cover Letter	rcarey@raynespark.merton.sch.uk
Performing Arts	Research and learn to perform a piece of music by a BAME musician on your chosen instrument for your mock unit 2 assignment brief celebrating equality and diversity through music. This concert will take place upon our return to school.	A video performance completed in school of your final performance within the concert.	mrobinson@raynespark.merton.sch.uk
	Join the Raynes Park High School playwriting group and write a play to be performed by KS3 and KS4 students in a new writing festival in the summer term.	Participation and contribution to the playwriting group and final performance.	mrobinson@raynespark.merton.sch.uk



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Business Studies	Write a CV and covering letter for a job in Business.	A copy of your CV and covering letter.	rsandhu@raynespark.merton.sch.uk
	Research the impact of the lowest interest rate in UK history and present your findings. Write a written report.	A copy of your report.	rsandhu@raynespark.merton.sch.uk
	Research and write a short report on 'Entrepreneurs with a social conscience'.	A copy of your report.	rsandhu@raynespark.merton.sch.uk
PE	Lockdown fitness challenge – you must complete at least two 20+ minute fitness sessions per week. This may be running, cycling, or home workouts. Remember, if you are training outside to do so safely and in line with government guidelines.	A screenshot of each challenge.	jsanderson@raynespark.merton.sch.uk
	Jobs in Sport - research task. Your challenge is to produce either a poster or powerpoint presentation on a career within sport of your choice. Some examples include; Sports Coach, Fitness Instructor, PE Teacher, Sports Journalist. Your work should include the following; qualifications needed for the role, what are the key duties/ responsibilities of the job, expected salary, examples of well-known people in those roles/ why they inspire you.	A copy of your poster or presentation.	jsanderson@raynespark.merton.sch.uk
	Your challenge is to write a detailed report on the positive effects of exercise on the body and mind. This report should draw on and cite multiple research sources (some useful links are shown here; https://www.nhs.uk/live-well/exercise/exercise-health-benefits/ https://www.youtube.com/watch?	A copy of your report.	jsanderson@raynespark.merton.sch.uk



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	<p>v=BHYOFxzoKZE https://www.forbes.com/sites/alicegwalton/2017/05/23/6-ways-exercise-benefits-the-body-and-brain/</p>		
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