



Key Stage 3 Challenge Programme Tasks

Faculty	Challenge	What you need to submit	Contact
Maths	Solve the following puzzle and submit your answer to your teacher: 'A worm is at the bottom of a forty-metre hole. It can crawl upwards at a rate of four meters in a day, but at night, it slips back three meters. At this rate, how long will it take the worm to crawl out of the hole?'	The answer to the puzzle with your working out.	Lsmy@raynespark.merton.sch.uk
	Find 5 jobs that you need Maths with. Write a small description of how maths is used in each job. Write a description of each job and explain how maths is used in each role.	A copy of your written work.	Lsmy@raynespark.merton.sch.uk
	Enter the UKMT Maths challenge: More information can be found here: Junior Mathematical Challenge Online UK Mathematics Trust (ukmt.org.uk)	Send an email for more information.	Lsmy@raynespark.merton.sch.uk
English	Write a letter to your teacher advising them about what they can do to support you better with remote lessons. A formal letter format must be used. A variety of ideas and suggestions should be offered and your reasons why these suggestions would support you better with your remote lessons.	A copy of your letter.	escott@raynespark.merton.sch.uk
	Write a factsheet about the career you want in the future. Research facts and information. Layout your factsheet with pictures, bullet points and interesting information that you have found out.	A copy of your fact sheet.	escott@raynespark.merton.sch.uk
	Research Anne Frank and write a creative piece inspired by her story which aims to stop prejudice and discrimination. This can be a story, article or essay and the best will be entered into the Anne Frank Creative writing awards. More information can be found here: The Anne Frank Creative Writing Awards 2020 - The Anne Frank Trust UK	A copy of your creative piece.	escott@raynespark.merton.sch.uk
Science	Read the article "Poisoned by milk" about how chromatography helped to solve a food and drink scare that affected chocolate and baby milk. Write a summary of the scare and state how chromatography was used to prove	A copy of your summary.	mcassini@raynespark.merton.sch.uk



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	<p>whether products had been tainted with melamine. https://edu.rsc.org/feature/chromatography-fights-food-fraud/3009078 Write up a summary of the food poisoning scare and state how chromatography was used to prove whether products had been tainted with melamine.</p>		
	<p>Complete the #kids2030 Challenge where you develop coding skills to prevent plastic pollution. More information can be found here #kids2030 Challenge Complete the challenges and take screen shots and download images to create a portfolio of evidence that can be used in their final submission task. Screenshot the submission page when you upload your final piece of work on to the website.</p>	A copy of your screenshots	mbowes@raynespark.merton.sch.uk
	<p>Enter the Shell Bright Ideas Challenge. More information can be found here The Bright Ideas Challenge Shell United Kingdom Watch the guidance video on preparing your entry from home.</p>	A copy of the completed entry form with supporting resources.	rjones@raynespark.merton.sch.uk
DT	<p>Enter the BAFTA Game Concept Award: design an original game idea. More information can be found here: http://ygd.bafta.org/competition Complete and submit a game concept design entry. through the BAFTA website and a screen shot should be taken once done.</p>	A screen shot plus a PDF or Word file of the entry.	rharris@raynespark.merton.sch.uk
	<p>Watch a D&T BBC Bitesize careers video of your choice. Careers videos can be found here: https://www.bbc.co.uk/bitesize/careers Create a presentation giving interesting facts about that particular job.</p>	A copy your completed PPT presentation.	rharris@raynespark.merton.sch.uk
	<p>Take part in the Dyson STEM challenges. More information can be found here:</p>	A copy of your photos.	rharris@raynespark.merton.sch.uk



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	<p>https://www.jamesdysonfoundation.co.uk/resources/challenge-cards.html?gclid=CjwKCAiA6aSABhApEiwA6Cbm_4f2utXikNRNmmwYvrUWBW03aOMJlfAh0mXhPZnKgHFwa-q3NkLRvRoCU8kQAvD_BwE</p> <p>Complete at least 5 Dyson Challenges. Take a collection of photos to evidence the completed challenges.</p>		
Art	<p>A View From My Window: Watch Grayson Perry's Art Club (Episode 4) of 4oD https://www.channel4.com/programmes/graysons-art-club/on-demand/71402-004</p> <p>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 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.</p>	A photograph of your artwork.	ccurtis@raynespark.merton.sch.uk
	<p>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. Do you think there is anything that could be improved in the design or this product?</p>	Written response to the clip.	ccurtis@raynespark.merton.sch.uk
Humanities	<p>How many countries can you name? Complete the online challenge at https://www.jetpunk.com/quizzes/how-many-countries-can-you-name</p> <p>Top scores will be displayed on tutor slides.</p>	A photo of your score.	gcollman@raynespark.merton.sch.uk
	<p>Research Thomas Friedman's "Golden Arches Theory of Conflict Prevention."</p> <p>Explain the theory and reflect on its validity.</p>	Written response to research.	gcollman@raynespark.merton.sch.uk
MFL	<p>Research a French/Spanish artist and carry out a project on them. You can be as creative as you like, use any medium.</p>	Photograph of project or written submission.	rcarey@raynespark.merton.sch.uk



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	Choose a Spanish/French film to watch and write a review of it.	Written submission of review.	rcarey@raynespark.merton.sch.uk
	Imagine that languages are not to be taught at all in primary or secondary school. You are a politician; write a speech/prepare for a debate about why languages are so important, and children should have the opportunity to learn them.	Written submission.	rcarey@raynespark.merton.sch.uk
Performing Arts	Learn to perform 'The Cup Song' using a plastic cup/beaker at home. The video below will teach you the ostinato and you will then perform this to a teacher when we return to school: https://www.youtube.com/watch?v=RZf_joR1Srk	A video of your performance.	mrobinson@raynespark.merton.sch.uk
	Research and create a poster that explores all the careers available to you in the theatre industry. You could use www.canva.com to make your poster look professional.	Take a picture of your poster or upload a file.	mrobinson@raynespark.merton.sch.uk
PE	Lockdown fitness challenge - improve your physical health. Your aim is to complete at least two 20+ minute fitness sessions per week during the current lockdown period. This may involve running, cycling, or home workouts. Remember, if you are training outside to do so safely and within the government guidelines. You can download various free running/ cycling apps such as Runkeeper and Strava to record/ evidence these sessions.	A screenshot of each session.	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 poster or presentation.	jsanderson@raynespark.merton.sch.uk



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	<p>Write a report on the Women's 2016 Olympic Handball final – first watch the link here; https://www.youtube.com/watch?v=O7fy3midv98 Your report should reference components of fitness that were used throughout the game, along with examples of when/ where. You should also research and reference some of the rules of the game, again using specific examples from the game to demonstrate your understanding.</p>	<p>Your finished report.</p>	<p>jsanderson@raynespark.merton.sch.uk</p>
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