

STEM Programme

Science						Notes
Enrichment Activity	Description	Link to Strategy Objectives	Staff Responsible	Year Group	Links to Gatsby Benchmarks	
Operating Theatre Live	The award winning Operating Theatre Live event offers a curriculum linked learning experience based around the dissection of real anatomical specimens in a real operating theatre.	1/3	Triple Science Teacher and SPR	10 (11 if spaces)	2/7	
National STEM Week	Various activities to promote and raise awareness of different scientific areas.	1/3/4	MB	All Years	2/4	
	Winchester science Museum		MB, MLB	Yr 7		
	STEM Kahoot	2	MB	Triple classes 9/10/11		
	Egg chuck competition – house event	2	RT / MB			
Science Lunch Club	A chance to experience science and the fun of different experiments. From dissections to making rockets, science club brings the excitement into any lunchtime.	1/3	MLB	All Years	2/4	
Christmas Lecture	Our passionate team of Science teachers will delve into the science behind a crime scene using a range of visual and interactive science demonstrations and experiments. The show will delve into the depths of the marine environment. Whether you are a science expert yourself or just an interested novice, there will be something for everyone!	1/3	MLB	All Years + Parents	4	
Primary Liaison Events	Various events to inspire primary students to have a passion for Science.	1	SPR + CG (new DHoS) + MLB	KS1&2 + Parents	4	

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Techno Hunt House Competition	Students work house groups of up to 4 students to complete a series of short challenges set by different faculties around the college. Students have to travel from block to block visiting each faculty where they take part in a 3-minute challenge before moving onto the next block on a double bell. They will then need their score put on scorecard before being sent to next activity.	1/2/3	MB + HoS	Year7/8/9 Year 10 STEM ambassadors to assist	3	
Science Challenge Badge Task	Part of the challenge award – Task: Who is the greatest scientists ever to have lived	3	SPR/CG/CP	All Years	4	
Belgium Space Centre	Trip to Belgium space centre, aimed at triple science students year 9, 10, 11		MLB	9,10		
Clanfield Observatory	Trip to clanfield observatory aimed at triple science students linking to space topic.		MLB	10 & 11		
Technology						
VIY Project	Supported by Wickes, the VIY project supports our Construction group to understand the construction industry and to make items for the school that develop their skills and better the school.	1/3	CM/RST	Year 9/10	2/4/5	
Technology Challenge Badge Task	Part of the challenge award – Task: Invention challenge, create a new invention and present it.	3	AIM/CP	All Years	4	
Girls in Construction	To encourage them to consider a technological option to begin in Y9		RST	Year 8		
STEM Catering Competition	House event in the form of great British bake off style, with teams cooking a dish	2	CJT, MB			

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	needing to meet specifications which are judged,					
CEMAST – ICONSTRUCT EVENT	CTEC/CEMAST centres to experience what working in the construction trade is really like		RST			
Engineering						
Portsmouth Water Industry Visit	Students will get to experience a workplace that is so vital to us having clean water so they can understand local labour market and what jobs are available to them locally.	1/3/4	AIM	Year 8	2/4/5/6	
Festival of Speed Visit	Combining a workshop focused around degree apprenticeships with a visit to the festival students get to experience STEM careers and how they can be fun as well as rewarding.	1/3	AIM	Year 11	2/4/5/6	
Lockhead Martin Helicopter Challenge TBC	Students with an interest in Engineering are invited to participate in an exciting engineering challenge - The Merlin Helicopter Rescue Mission- courtesy of Lockheed Martin UK. This task is ideal opportunity for pupils with an interest to find out more about Engineering and pit their engineering skills against teams in the Portsmouth.	1/3	AIM/KJS	Year 9	2/4/5/6	
Inspiring Industry Seminars	Inspirational engaging seminars to show the high level of local engineering and to increase aspiration in students			Year 9E & 10		

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Girls in Engineering	To encourage them to consider a technological option to begin in Y9		AIM/JMB	Year 8		
Williams formula 1 visit	Visit to Formula 1 track location to look at engineering, technology and science behind F1.		AIM			
Faraday Challenge	Visit to Portsmouth university to tackle a real world problem and create an invention to help problem solve		CM, MB	1, 3		
WASP Engineering	Partnership with WASP engineering focusing on pathways into industry.		AIM	1,3,4		
AVIATION TRIP	Aviation Careers Event organised by NATS. They gained an insight into different careers within the aviation industry and heard talks from The British Aerobatic Association and Flylogix to understand different types of aircraft and how they work		CM, MB	1,3		
Maths						
Geocache	House competition where students work through the mathematical clues to get to locations and then the final place where the prize is.	1/2	EJO	All Years	3	
Countdown	House competition based on the TV show where the students are given a number that they have to make using the six given numbers. There is a time limit so the aim	1/2	EJO	All Years	3	

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	of the competition is to be quick with mental maths.					
Junior UKMT Maths Challenges	The Intermediate Mathematical Challenge is a 60-minute, multiple-choice competition aimed at students across the UK. It encourages mathematical reasoning, precision of thought, and fluency in using basic mathematical techniques to solve interesting problems. The problems on the Intermediate Mathematical Challenge are designed to make students think. Most are accessible, yet still challenge those with more experience.	1/3	CLG	Year 7 & 8	3	
Senior UKMT Maths Challenges	The Senior Mathematical Challenge is a 90-minute, multiple-choice competition aimed at students across the UK. It encourages mathematical reasoning, precision of thought, and fluency in using basic mathematical techniques to solve interesting problems. The problems on the Senior Mathematical Challenge are designed to make students think. Most are accessible, yet still challenge those with more experience.	1/3	CLG	All years	3	
Maths Feast	Maths Feast is a fun educational challenge for students which tests problem-solving and teamwork skills. Teams of four	1/3	CLG	Year 10	3	

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	<p>students will test their maths skills with our all-you-can-eat feast of problems!</p> <p>There are several rounds requiring different skills and strategies for success. Each event takes between two and three hours, and awards will be given for good teamwork and for the winning team of each round.</p>					
University Maths Linked Visits/Masterclass	Students will get to work with lecturers from higher education to see how Maths is taught at university level to inspire them to take their learning to the next level.	1/3	CM	Year 10/11	4/7	
Maths Challenge Badge Task	Maths Challenge – Solve the maths problem	3	CLG	All Years	4	
Maths Fiesta	Maths competition over 2 periods		CLG	Year 9		