



STEM HUB NEWSLETTER

A STUDENT NEWSLETTER AT DRAYTON MANOR HIGH SCHOOL

Autumn Term Edition

draytonmanor.wixsite.com/stem

WELCOME TO THE STEM HUB NEWSLETTER

Hello, and welcome to the fourth Drayton Manor High School STEM Newsletter. This newsletter will focus on STEM (Science, Technology, Engineering and Maths) news and activities that have taken place this term. Opportunities, upcoming competitions, as well as a STEM Hub leaderboard summary will also feature in this issue.

Our primary aim at the STEM Hub is to encourage countless students to develop an interest in Science, Technology, Engineering and Mathematics. To boost STEM involvement, our team is running quizzes and competitions for you to engage with.

To find out more, please visit the STEM Hub website:

<https://draytonmanor.wixsite.com/stem>

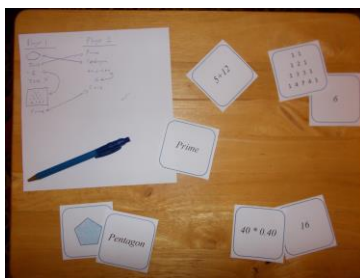
STEM Hub Competitions

We're pleased to announce a set of three new competitions being run by the STEM Hub Team in Spring 2023.

For full details of how to get involved with our competitions and what they entail, visit our website and click on the "Competition" tab.

STEM Hub KS3 Competition

Our Spring Term competition for KS3 challenges you to create a puzzling mathematical game. The rules of the game are completely up to you, as well as the number of players! You must create the concept for your game and also put it into practice, be it a computer-based game, a simple pen-and-paper game, or even a traditional board game. Your game will be judged on its overall concept and the quality of the finished product, but most importantly on how fun it is. The best three games will earn their creator(s) a prize! Please submit your finished product to your science teacher by **Wednesday 8th February 2023**.



STEM Hub KS4 Competition

On a similar theme to our KS3 competition, KS4 entrants will be required to play a mathematical game created by the STEM Hub Team! Entrants will engage in friendly competition against each other for 1st, 2nd, and 3rd place. The top three winners will receive a prize! Please register your interest in this competition by **Wednesday 1st February 2023** by filling out the form below:

<https://forms.office.com/e/y0Jxe5mTKn>

STEM Hub Poster Competition

Calling all budding artists and graphic designers! The STEM Hub and Science Faculty are looking for a new creative and informative health-and-safety poster. Posters can be hand-drawn or designed using computer software.

There will be one winner per year group, as well as an overall winner whose poster will be put on display in Science classrooms throughout the school! The precise rules and details for this competition can be found on our website.

STEM Hub Points

TOP YEAR GROUP:
Year 13: (112 Points)

TOP TUTOR GROUPS:
13.2: (19 Points)
13.3: (16 Points)
13.4: (16 Points)

TOP KEY STAGE:
KS5: (155 Points)

STEM Hub Houses Leaderboard

1st: Phoenix (73)



2nd: Caladrius (61)



3rd: Griffin (59)



4th: Pegasus (49)



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Year 7 STEM Day

In partnership with HS2, Drayton Manor organised a STEM Day for Year 7 students to engage with aspects of engineering and real-world mathematics. High Speed 2 is a new high-speed railway currently being planned that will run between the Northwest and Southeast of the UK.

The first activity of the day involved students identifying and designing features that would be suitable for a future railway station, such as cafes and accessibility.

Students' creative skills were then put to the test, as they had to create a sturdy, yet light tunnel with paper straws. The tunnel had to withstand a mass of 2kg, as well as have a model train pass beneath it! As a result of one particular group's determination and excitement, Drayton Manor was able to propose the lightest tunnel out of all the schools that took part in this opportunity, coming in at a mass of only 23 grams!



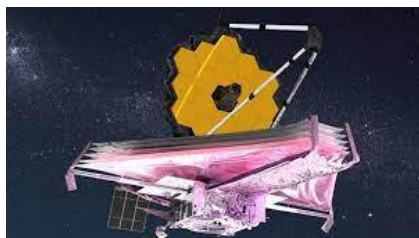
This fun experience gave students a sense of teamwork and proved to be a valuable experience for improved spatial-thinking. We are pleased to see that the majority of students greatly enjoyed this day and we hope for more activities like this to take place in the new year.

STEM News

This term, we are happy to reintroduce STEM News. STEM News is dedicated to informing you of the latest exciting national and international news in relation to Science, Technology, Engineering and Mathematics.

Our previous STEM News articles have included information about the James Webb Telescope and Instagram's 'take a break' feature. This year, we hope to release informative articles on a range of topics, such as the Artemis space launch.

Our articles can be found on the blog section of the STEM Hub website:
<https://draytonmanor.wixsite.com/stem/blog>



Get Involved

If there's a topic you're particularly interested in, why not research it and send through an article of your own for publication on the STEM Hub website? Doing so will not only enhance your research and scientific writing skills, but will also net your year group and house 20 points on our leaderboard!

Further details on how to go about doing this can be found on our website.

Opportunities

The STEM Hub website has an opportunities section for students in KS3, KS4 and KS5. These opportunities are sourced from a variety of world-class universities and STEM-centred organisations. We strongly encourage everyone interested in STEM or who would like to expand their network of professionals to avail themselves of these opportunities.

We hope you have enjoyed the STEM Hub Newsletter. Thank you very much to our STEM Hub team:

- Neil 13.1** – STEM Hub Manager
- Nadia 12.8** – Newsletter Author
- Miski 12.7** – Quiz Author
- Rahma 12.7** – Quiz Author
- Tiyonne 13.8** – Competitions Coordinator
- Abdiqani 13.8** – Competitions Coordinator
- Maslinia 12.1** – Competitions Coordinator
- Muna 12.2** – Competitions Coordinator
- Zahra 13.6** – Blog Author
- Musa 12.6** – Blog Author
- Ahmed 12.5** – Website Manager and Opportunities Coordinator
- Ravleen 12.5** – Opportunities Coordinator