



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 first Drayton Manor High School STEM Newsletter. This newsletter will focus on STEM (Science, Technology, Engineering and Maths) activities and news which have occurred during this school term. It will also include information about the winners of our STEM competition and their work, and the key stage, year groups and forms who have gathered the most points on the STEM Leaderboard.

The STEM Hub Team are running competitions and quizzes for pupils at school and we're providing opportunities to boost STEM involvement. The aim of the STEM Hub is to encourage as many students as possible across the whole school to get involved in Science, Technology, Engineering and Mathematics. To find out more visit the STEM Hub website:

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

How To Get Involved In STEM

Interested in anything science or maths related? You can write STEM articles and send them to us for publishing on the STEM Hub website. Doing so will earn 20 points for your year group and house on the STEM Hub. These articles can cover anything, from some of the newest revelations about quantum computing, to simply how you can repeatedly beat someone in different games using certain tactics. The only requirement is that it involves something that is related to an aspect of STEM.

STEM Hub Summer 2021 Competition

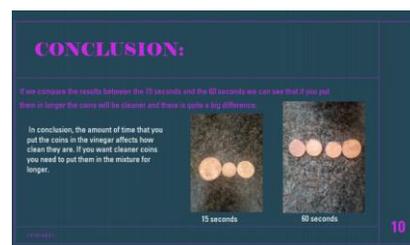
The STEM Hub Summer 2021 competition challenged KS3 students to use their creative and analytic skills to design a science experiment, carry out code and mathematically analyse the effectiveness of a vaccine. They were then required to present this information as part of their entry. We were very impressed with all entries – have a look at the winners below.

STEM Hub Summer 2021 Competition Winners

- 1st Place:** Hermione 8F
- 2nd Place:** Quratulain 8E
- 3rd Place:** Tamara 8E

Congratulations to the winners! Below are some images of the presentation from the overall winner, Hermione.

The full PowerPoint can be viewed via this link:
<https://draytonmanor.wixsite.com/stem/competition-winner>



Future Opportunities In STEM

The opportunities section of our page allows you to get involved in many activities involving STEM inside and outside of school. Currently, we've got a physics advent calendar for you to look at, allowing you to do different experiments in your own home; a coding/poetry writing competition opening in March, which allows you to either write a poem or a Scratch program on the theme of "The Connectivity of the Universe"; and much more. There are also external opportunities available such as "Young Professionals" and "SpringPod", who currently offer opportunities in technology and engineering.

STEM Hub Points

TOP YEAR GROUP:
Year 13 (224 Points)

TOP TUTOR GROUP:
8E (80 points)

TOP KEY STAGE:
KS5 - Year 12, Year 13 (436 Points)

STEM Hub Houses Leaderboard

1st: Caladrius (282)



2nd: Pegasus (115)



3rd: Griffin (96)



4th: Phoenix (93)



For the full leaderboard, visit this link: <https://draytonmanor.wixsite.com/stem/leaderboard>





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Drayton Manor STEM Activities

This term Biology A Level students went on a trip to Epping Forest to complete a required core practical. Amar, a student in 13.7, said "This was a trip I myself went on and it was a very useful and an enjoyable experience. We carried out engaging and practical tasks like using quadrats to count the number of different species within different areas of the forest. We also looked for different species within ponds using a pond net which was an exciting activity. We were also able to carry out statistical tests in classrooms on the data we gathered."



There is also Mr Bayeh's code club which takes place every Thursday P4 in A232. Neil, a student in 12.1, who attends, says "Code club is an engaging community where we explore computer programming, hardware, problem solving, and much more."

An upcoming "Women In STEM" club will begin in January 2022 for all girls in years 7-9. From performing multiple science and engineering experiments to listening to guest speakers in the STEM industry, the club is an exciting opportunity for girls who want to have a career in STEM and are unsure of what to do in the future, or just want an amazing female empowerment experience. Spaces are limited and will be on offer very

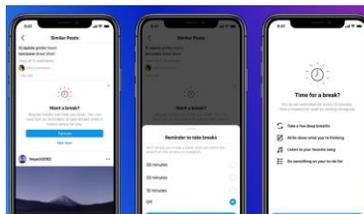
soon.

STEM News

Instagram have announced that a "take-a-break" feature will be launched to help teenagers manage their time on Instagram. Parents will be able to see and control how much time their children are spending on Instagram, in a similar way to Apple's 2018 Screen Time utility.

Over the past few months, especially during lockdown, Instagram has been under massive pressure due to the usage of their platform. Research has shown that "teenagers blame overuse of Instagram as reasoning for mental health and anxiety". Instagram has stated that "take-a-break" is a great way for parents to feel less worried about their children's health, safety and mental wellbeing.

Instagram chief, Adam Mosseri recently announced that Instagram will hope to launch the feature in the UK and several other countries later this month when it is fully operational.



Future STEM Competitions

There are upcoming competitions for KS3 and KS5 pupils. For KS3 pupils, your challenge is to build the most stable bridge. The aim is to build a bridge which can take the most weight without breaking and

without the weights falling off. You will need to consider the shapes and materials you use.

For KS5 pupils, your challenge is to write a scientific article. The article should focus on the latest news in Science, Technology, Engineering, or Mathematics. The article should be written in the style of a scientific article. Visit the following link for more information:

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

The deadline for the KS5 competition is the **20th February 2022** and the deadline for the KS3 competition is **25th February 2022**. We look forward to all submissions.

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

Dilvir 12.8 - Opportunities Coordinator

Thaleise 12.8 - Marketing

Tiyonne 12.8 - Competitions Coordinator

Neil 12.1 - Competitions Coordinator

Beth 12.4 - Quiz Author

Zahra 12.6 - Blog Author and Coordinator

Amar 13.7 - Newsletter Author

Muhammad 13.8 - Leaderboard and Systems Coordinator

Rathurshan 13.3 - Blog Author and Coordinator

Kuba 13.8 - STEM Hub Creator

