



STEM HUB NEWSLETTER

A STUDENT NEWSLETTER AT DRAYTON MANOR HIGH SCHOOL

Autumn Term Edition 2023

draytonmanor.wixsite.com/stem

WELCOME TO THE STEM HUB NEWSLETTER

Hello, and welcome to the 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

Throughout the year, the STEM Hub created various competitions and quizzes for students. The team were pleased to see such strong engagement and enthusiasm, and this continues into the following year. Thank you to all who have entered our competitions!

Here is a recap of some of the competitions that took place in 2023.

STEM Hub KS3 competition

Our KS3 competition required students to use their innovative skills to create a fun, stimulating mathematical game. It was great to see so many interesting games!

Congratulations to:

1st place Oishika (7I)
2nd place: Justin (7L)

STEM Hub Poster Competition

In collaboration with the science faculty, this competition challenged students to create an informative, eye-catching poster. The winning poster was displayed in all the science classrooms. It was difficult to choose between equally amazing posters.

Congratulations to:

1st place :lfra (8F)
2nd place: Munira (8F)
3rd place: Sewah (7K)

The STEM Hub would like to thank everyone who has taken part!

We're pleased to announce a set of two new competitions being run by the STEM Hub Team in Spring 2024.

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 KS5 Competition

Our Spring Term Competition for KS5 will be a 2-week-long Math challenge. Over the Spring half-term break, students will aim to get the digits 0-100 using only the digits 2, 0, 2, and 4. More specific rules will be expanded on closer to the challenge date. The top three teams will earn a prize!

STEM Hub KS3 Competition

On a different theme to our KS5 Competition, KS3 students will strive to construct the most robust structure using only the materials provided. Details on this event will be posted on the website closer to the event date.

Last Years STEM Hub Points

TOP YEAR GROUP:

Year 8: **(243 Points)**

TOP TUTOR GROUP:

8F: **(136 Points)**

TOP KEY STAGE:

KS3: **(466 points)**

STEM Hub House Leaderboard

1st: **Caladrius (355)**



2nd: **Pegasus (313)**



3rd: **Griffin (217)**



4th: **Phoenix (169)**



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



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Trip to North Norfolk

Earlier this year in March, Year 12 A Level Geography class travelled by coach to North Norfolk on the east coast of England for our 3-day residential trip. North Norfolk is renowned for its coastline bordering the North Sea which is backed up by coastal defences like groynes (wooden or rock structures to absorb wave energy that causes erosion) to protect the coast, cliffs and the population against flooding and fast erosion rates. They visited the coasts of Weybourne, Salhouse, Sheringham and Cromer and conducted lots of surveys and tests like the orange drift test theory to assess the rate of longshore drift (the addition or deposition and removal or erosion of sediment at an angle along a coastline), measuring the size of pebbles and questionnaires for the local people to understand their opinions on the local area.

Ravleen (13.5) said "My class made sure to work hard and learn a lot while have lots of fun. We made a short trip to McDonalds on the way to North Norfolk, played card games, got gifts for our loved ones at home, played music at the loudest volume possible and did archery! There was no Internet connection available where we were staying which was refreshing as I managed to connect with my classmates instead.

The opportunity to travel with my school is something I'm grateful for; the memories and experience I gained from the trip were valuable and definitely irreplaceable."

STEM News

Maths is a subject that many students turn away from due to bad experiences they've had. Despite its reputation, we cannot disregard its major contributions to the modern world. The device you are reading is the product of intricate design and precise calculations. Maths is fascinating, ultimately useful and should be explored outside the classroom. Why don't you go down the rabbit hole of interesting concepts?

At the beginning of this year, maths was a hot topic in the news. Prime Minister Rishi Sunak has argued for maths to be compulsory until 18, higher than the current age of 16. Although maths is a very versatile subject, there are questions as to whether it should be compulsory after GCSEs.

Maths can be made a career as it opens the doors to many opportunities. A data analyst, meteorologist, economist, the list is endless! Even if you don't wish to study maths in the future, it's importance should be acknowledged and celebrated.

Rishi Sunak's 'maths until 18' plan questioned by experts

© 7 February



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:

Ahmed 13.5 – STEM Hub Manager

Lara 12.5 – Newsletter Author

Nourdin 12.7 – Quiz Author

Ruby 12.3 – Quiz Author

Miski 13.7 – Quiz Author

Taiyo 12.3 – Competitions Coordinator

Ming Tak 12.7 – Competitions Coordinator

Amar 12.3 – Competitions Coordinator

Tasneen 12.2 – Marketing

Hanan 12.5 – Marketing

Laily 12.6 – Blog Author

Benjamin 13.6 – Website Manager

Salma 12.8 – Opportunities Coordinator

