



THE STEM TIMES

The Newsletter For All Things STEM
At Magna Academy Poole

Issue 6 | May 2022

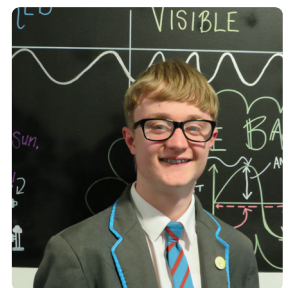
Imperial College London STEM Potential Programme

Imperial College London (ICL) STEM Potential is a multi-year programme of activities and support for young people, developed to help them to discover the wide range of subjects within STEM studies and to aid their progression to university. During their time on the programme, students will attend around five days of events each academic year at ICL South Kensington Campus, including subject focused sessions, university preparation workshops, taster events and lectures.

This year we are delighted to have 2 successful applicants, Katelyn Smith and Neo Skinner. They had their first on campus event at Imperial College London on 5 April where they had lectures, practical workshops and theory sessions. Here's what they had to say about their experience:

"We took part in a chemistry session where we experimented with bath bombs to try and perfect the recipe. We also discussed the science behind them, looking at the citric acid and sodium bicarbonate reaction that produces carbon dioxide, water and sodium citrate. It really helped to understand the useful applications of chemistry."

"The trip was very enlightening about university life, qualifications and education. I thoroughly enjoyed the day and would recommend it to any students interested in STEM."



Stop Motion Animation Competition

We are currently celebrating the outcome of the Stop Motion Animation Competition 2 (of 3). The winner was Lily Shutler-Gray in Year 7 with her Lego animation.

As part of the enrichment programme, the Media Studies Department is keen on exploring beyond the curriculum, crossing over into Computer Science. With this project, students have not only produced a video; they have engaged in colour theory and the science behind digital imaging.



Physics Challenges

Senior Physics Challenge is a two part online multiple choice challenge for students in year 12. Students are asked questions about physics in real life and knowledge beyond the National Curriculum. Four of our five Year 12 physics students took part with every one of them achieving an award.

Silver - Sebastian Wakenshaw, Joshua Bleeze

Bronze - Lily Upshall, Koray Ibramov



Intermediate Physics Challenge is a two part online multiple choice challenge for students in year 11. There are general knowledge questions and subject specific topics covered. The challenge is designed for all students, not just the most able so at Magna we decided to enable all of the year 11 students to take part with some excellent results.

Gold - Yamen Abiad

Silver - Agnes Grenholm, Owen Wordley, Jake Merrifield, Oliver Gale, Zara King-Bridgeman, Tanya Ustun, Thomas Pawlowski, Freddie Thornton, Lauren Carr, Any Hughes, Jasmin Gue

Bronze - Amelia Foster, Amelia Mlazga, James Brooking, Ruby Carr, Ashley Hands, Ayla Turkoz, Emily Sparrow, Joshua Chalk, Leo Brown, Leveshan Piratheepan, Oliver Lant, Ryan Murray, William Price, Elliott Graham, Freddie Palmer, Iftikhar Ahmed, Isabelle Pheby, Jayden Kirkby, Kerry Carter, Matthew Ford, Brett Crane, Elliot Legg, Joseph Winning, Keeley Whatley, Laila Williams, Lexie Henderson, Amy Illidge, Ellie Gallantry, George Rowledge, Harry Henderson-Bishop

Senior Physics Competition is a 1 hour written competition from which Gold award winners are invited to take part in international team and individual competitions. This is a challenging paper really designed to stretch the most able and get students thinking outside the box. All our year 12 physics students took part and Joshua Bleeze achieved the Bronze 2 award.

Maths Challenges

Magna's Maths Department is really pleased with our recent success in the United Kingdom Mathematics Trust (UKMT) 'Pink Kangaroo' and 'Grey Kangaroo' competitions.

Marios in Year 10 and Areya in Year 9 were our first ever entrants into the follow-on round of the UKMT's Intermediate Maths Challenge. (IMC)

The IMC is a 60-minute, multiple-choice challenge. It encourages mathematical reasoning, precision of thought and fluency in using basic mathematical techniques to solve interesting problems.

The IMC was sat by all the top set Year 9 and Year 10's in early March, achieving our best ever result of 16 Bronze certificates, 5 Silver and 1 Gold.

Year 10

Marios Salagiannis - Gold Best in School

Tyler Rocha, Jackson Hill, Oliver Chapman, Ruby Matthews - Silver

Samuel Blake, Kyran Hartle, Neo Skinner, Olly Williams, Alex Tafias, Katelyn Smith, Andrew Coles, Cyrus Hurley, Daniel Stainforth, Jazmyn Green, Matthew Roast, Jarrod Cullen - Bronze

Year 9

Areya Stockley - Silver Best in Year

Ephram Matocha, Jade He, Nathan Bizzell, Skye Marsh - Bronze

