



**Berkeley
Green
UTC**

**WEEKLY NEWSLETTER
25-NOV-22**



Headteacher's Update

Today we have welcomed Lord Baker and Siobhan Baillie MP to the UTC. They have spent the morning interacting with the students and discussing their employer project. They both spoke with a large number of students about the opportunities that going to a UTC will provide them with, and praised them on the quality of the work they produced. They were both especially impressed with the Founding 20 representatives who they were able to speak to as they are both advocates for creating more opportunities for females in STEM.

At the end of their visit two groups of students were able to present their solutions to the MOOG project – more details later in the newsletter – to Lord Baker and Siobhan Baillie. They were both hugely impressed with not only the technical knowledge they demonstrated, but their ability to present in a professional way. One of the groups that presented were made up of 6 year 13 students – Jack Dyer, Caleb Tritton, Toby Wilson, Chloe Ealey, Joe Pipe and Bartosz Peczylo – 5 of whom have been with us since the beginning of year 10. It filled me with pride watching how students who we knew as nervous 14 year olds who struggled with public speaking, have developed into confident, articulate speakers with a clear expert knowledge in what they were presenting.

There is a project report and photographs from the day later in this newsletter.

Gareth

Student Celebrations

This week we have had over 215 students all with 100% attendance entered into the Choco Lotto, This weeks winners were David Thomas, Toby Wilson, Tomos Diaz and Kerris Hall. This is an incredible achievement considering the picture of attendance nationally over the past week there has been a lot of illnesses across other schools. UTC students must be made of tougher stuff.

Currently 11 Sempre have the highest attendance in the UTC with 96.1%. Attendance is very important at the UTC and we always like to celebrate it we still have 79 members of the 100% club this is made up of those students who have not had a day off yet in 2022/2023.

As for displays of values students continue to make a strong return to second term and here are the students who have been leading the way in each tutor group over the last 2 weeks:

- 10 Lockheed Martin - Daniel Matysek
- 10 MOOG - Shuja Smith
- 10 Renishaw - Saul Leveridge
- 10 Waterman Aspen - Ben Maers
- 11 Intel - Danny Gibbons
- 11 Sempre - Georgia Etheridge
- 11 Versarien - Tyler Osborn
- 12 Atkins - Louis Holmes
- 12 Mira - Charlotte Webster
- 12 Rolls Royce - Nathaniel Gunzo
- 13 CGI - Timothy Mitchell
- 13 CSA - Ollie Clarke
- 13 Versarien - Leo Bello

Open Event

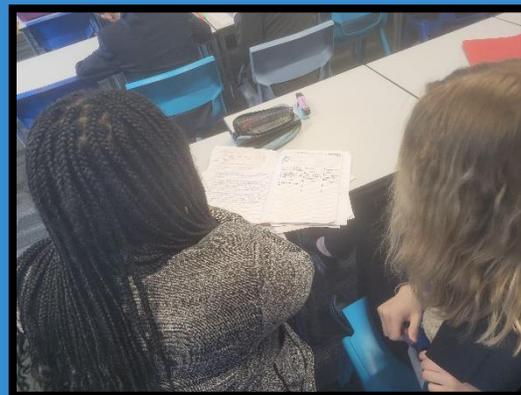
Just a reminder that tomorrow - Saturday 26th of November - we have the next open event. This is a great opportunity for parents of our Year 11 cohort to come to the UTC and speak to the teachers about the courses we are offering next year.

Parent Voice

Thank you to all parents and carers who completed the feedback survey. We are delighted with the feedback we have been given and we will ensure that all queries are followed up by one of the team.

Eco Schools

With an unconventional start to our week, our students participated in Cultural Capital day. This involved a session exploring the environmental implications of the Qatar World Cup 2022. Although we admired the innovative engineering of the cooling systems in the stadiums, we also discussed the significant emissions relating to building infrastructure as well as the country's wealth being reliant on the fossil fuel industry and how that may influence their stance on global net zero targets. Our students were able to spend some time respectfully debating whether they felt the country's claims that this world cup really was carbon neutral stand up to scrutiny; it was very interesting to witness some of our students getting into character.



Year 10 English students have been analysing each others Jekyll and Hyde reviews.



Deb and Ruth leading an assembly on living and working in the Middle East as part of cultural capital day.



Our Esports tournament is continuing with the finals happening next week.

Key Stage 4 Curriculum Update

This year in Maths, year 11 have been learning about straight line graphs and practicing their skills in algebra.

Harriet Parish – Teacher of Maths

Employer Project

MOOG Inc is a designer, manufacturer and integrator of precision control components and systems.

MOOG have become an important employer partner working with UTC regularly. In May they delivered a Tech Talk on aviation engineering and have sponsored a Year 10 tutor group. In September employees from MOOG came in to meet the tutor group and to worked on an employability lesson on Teamwork. Students completed an assessment centre style group activity and MOOG discussed how they use team work in their work place.

In 1951 Bill and Art Moog and Lou Geyer opened Moog Valve, they had limited resources and worked from an old aircraft hangar. Moog is now an international company working in a diverse group of industries from defense to power generation. Recently their space products played a vital role in the launching of the Artemis 1 space rocket, which is the first unmanned test flight of NASA's return to the Moon.

Today we welcomed our MOOG to the UTC. MOOG produces a wide range of aircraft controls, space and defense controls, industrial systems and components. It has designing and manufacturing capabilities in motion, electronics and fiber optics. Mark Hince (UK Resourcing Manager), Rob Grey (Operations Training Partner), gave an initial presentation about the company and their roles within it. They then launched the 'Betta-Byke Challenge'. MOOG asked students to work as a team of engineers, designers and analysts to create proposals for an electrically powered bike that has very low production costs. They needed to consider the safety, performance, design and testing of the product, and were made aware of a previous electric bike, made by the company, that had been a disaster due to customers being injured whilst riding the bike and very high production costs that made it too expensive for the target market. In addition to this, students were also asked to consider the possibility of a Smart bike. They were asked to use technology and data capture to integrate weather conditions, health monitoring and compatibility with other products with the bike design.

The students settled quickly to the task, researching electric bikes, smart devices, production methods and looked at the costs of parts and devices. They assigned tasks within their teams to ensure they could complete all the presentation before the deadline. Ted Ruthers in year 10 felt the day was an '*inspirational and educational experience*'.

Mark Hince said that "*attending the Berkeley Green employer project day highlighted the depth and breadth of incredible young talent that are a credit to the UTC. This has allowed MOOG to engage with an entity that aligns with our culture and philosophy in getting the best out of the students who aspire to work in cyber and engineering industries. MOOG considers the UTC network as ground breaking in their approach to early STEM careers.*"

The project was hugely successful and gave students the opportunity to work with MOOG and combine the knowledge they learn in the classroom with real world scenarios.

Upcoming Dates

26th November – UTC open event

28th November – INSET day. UTC closed for all students.

16th December – Last day of term

3rd January – INSET day. UTC closed for all students.

4th January – First day of the new term

Key Stage 5 Curriculum Update

In our level 3 engineering computer aided design unit students have been using Fusion 360 to make mechanical models of steam engines as part of their coursework.

Ben Williams – Teacher of Engineering

