



**Berkeley  
Green  
UTC**

**WEEKLY NEWSLETTER  
11-NOV-22**



### **Headteacher's Update**

This week our students have been learning about remembrance and the contributions that current and previous generations have made in keeping Great Britain safe. On our campus we have a police training center and I was invited – along with a small group of students who parent's served in the forces – to observe their remembrance parade. One of our students in year 13 – Joseph Pipe – took it upon himself to create some 3D printed ID card holders with the poppy emblem embodied in the design. These were sold and the money raised went to the Royal British Legion.

Two groups of post 16 students have decided to enter different international competitions this year, and this week they began working on their entries. The F1 for Schools team – led by Leo Salisbury – are hoping to design an F1 prototype to compete on the international stage, and our robotics team sponsored by Raytheon and led by Jack Dryer are beginning their designs to try and improve on their international runners up title from last year. We're excited to see how their projects progress.

Gareth

## Student Celebrations

This week we had over 200 students with 100% attendance entered into the Choco Lotto. This weeks winners were Thomas Smith, Lara Fosbrook, Adam Iannetta and Ryan Kukula.

We currently have 6 tutor groups with 95%+ attendance, well done 10 Lockheed Martin, 10 Waterman Aspen, 11 Intel, 12 Mira, 12 Rolls Royce and 10 Reinshaw who have the highest attendance in the UTC. Attendance is very important at the UTC and we always like to celebrate it. We still have almost 100 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 we have made a strong return for the second term. Here all the people who have gained the most points since the half term break.

- George Thompson - 10 Lockheed Martin
- Jayden Butt - 10 MOOG
- Giovanni Bailey - 10 Renishaw
- Adam Rumbold - 10 Waterman Aspen
- Tomos Diaz - 11 Intel
- Georgia Etheridge - 11 Sempre
- Tyler Osborn - 11 Versarien
- Taz Gill - 12 Atkins
- Caldora Vickers - 12 Mira
- Nathaniel Gunzo - 12 Rolls Royce
- Jake Bentley - 13 CGI
- William Culley - 13 CSA
- Dan Wilson - 13 Versarien

## Parent Voice

As part of our quality assurance process we would like all parents and carers to complete the survey linked below. This will be able to give us helpful data that will be used to improve different parts of the UTC. Please complete this survey by Monday 21<sup>st</sup> November.

<https://forms.office.com/r/HTqxVQiaRh>



*Year 10 cyber students learning about the different reasons people commit cyber crime.*



*Year 11 have been planting trees around the UTC site*



*Joseph Pipe in year 13 with one of his 3D printed remembrance card holders*

## Key Stage 4 Curriculum Update

*In history we've been learning about the changes taking place in medicine over the course of the 19th century: we've looked at the development of vaccines and the contributions of nurses such as Florence Nightingale and Mary Seacole during the Crimean War and at home along with how these developments still hold significance today*

*Sam Roach – Teacher of History*

## Eco Schools

This week in Active Ecology, we learned about the importance of worms as decomposers, recycling nutrients into the soil to encourage plant growth. We observed some DIY wormery projects before designing one, using upcycled materials from the UTC. Chris Carpenter-Richards was particularly hands-on whilst drilling air holes for the worms and Evan Dufield was, by far, the most enthusiastic to handle our new squirm of tiger worms into their new dwelling. Coral Lewis has made a poster to inform kitchen staff of plant waste that can be added to the wormery whilst preparing meals. The worms will decompose this material on site and provide good quality compost for the Gardening Club to use in the outdoor areas they are tending.

## Rights Respecting School – *written by Katy Voice (year 10)*

This week we have focused on Remembrance. Article 38 is an important right that protects young people and states that children and young people should never be forced to fight in the armed forces or go to war. Governments must not allow children under the age of 15 to take part in war or join the armed forces. Governments must do everything they can to protect and care for children affected by war and armed conflicts.

Article 38 is particularly important to discuss around Remembrance because of its direct link with war. It reminds us that Children have a right to life. It is also important to think about Article 38 because during wars, some people lose their own lives to protect the lives of children and their communities. It is important to remember their sacrifice. If we forget about wars that have protected our way of life, we might make the same mistakes again. It is important to think about how we can achieve a more peaceful future.

Remembrance unites people of all faiths cultures and backgrounds in honouring those who defend our democratic freedom and way of life.

In tutor time this week we have discussed UNICEF which was created in 1946 to help protect children after World War II. The Rights Respecting School Award that we are working towards is awarded by UNICEF, it was great to discuss the work that UNICEF does in connection with Remembrance- seeing just how valuable children's rights are.

## Upcoming Dates

- 17<sup>th</sup> November** – Year 11 parents progression meeting
- 21<sup>st</sup> November** – Cultural capital day (more details to follow)
- 25<sup>th</sup> November** – MOOG employer project
- 26<sup>th</sup> November** – UTC open event
- 28<sup>th</sup> November** – INSET day. UTC closed for all students.
- 16<sup>th</sup> December** – Last day of term
- 3<sup>rd</sup> January** – INSET day. UTC closed for all students.
- 4<sup>th</sup> January** – First day of the new term

## Key Stage 5 Curriculum Update

*This week in year 12 core Maths, we have been looking at using percentage calculations to analyse sales reports, and how we can use Microsoft excel to compute percentage changes for large sets of data.*

*Rohan Easby – Teacher of Maths*

## Swansea Trip

On Wednesday 70 students from Years 12 & 13 took a coach to Swansea University's Bay Campus to find out more about their Digital and Engineering degree courses. Students were given a lecture on Industry 4.0 by Dr Jennifer Thompson, one of the lead lectures in the Mechanical Engineering Department. The lecture looked at the three previous Industrial Revolutions, how and why different technologies had developed, and how they were interlinked. The lecture then looked forward to Industry 4.0, or the 4th Industrial Revolution, focusing on robotics, the interactions between smart devices, the advantages and disadvantages of big data collection, and how industry needs to be sure that it fully tests any new devices and programs before they are implemented.

The students then visited the 3D printing department where they were shown different methods of 3D printing, and were told how it can be used. The department had examples to share with the students, such as how it can be used in the aeronautical and medical industries, as well as prototyping to develop products iteratively before they go into production. This innovation is saving companies time and money by making the process from design to manufacture more efficient.

Finally, students were given a tour of the Robotics lab. They were shown a robotic production line that works autonomously. A combination of robots with different specialisms on the line allow products to be manufactured; it also carries out quality checks and has procedures in place to correct any errors. This limits material and product waste which is important in helping industry to become more sustainable, and it aims to have only 0.6% of products that cannot be sold. The lecturer explained that population demographics are changing as people live longer, so there will be fewer members of the work force which will lead to an increase in the use of robots.

But the highlight of the trip was the demonstration of the dog robot! Once he had been turned on, he sprang into life, moving around the room and performing tricks such as rolling over and lying down. The movements were incredibly lifelike and he wouldn't need to be fed or walked. But he didn't have a wagging tail or puppy dog eyes!

Our students enjoyed the visit and it was inspiring to see such amazing innovation at the university. The tour also highlighted the links between our specialisms, Digital Technologies and Engineering, and the way in which they work together and are the future for Industry 4.0.

