



# Newsletter

Friday 4th December 2020

# A message from the Principal



“

I need to recognise the hard work of our Year 11s and Year 13s who have been completing their PPE examinations this week. The students have displayed a positive attitude and been demonstrating excellent determination and resilience skills through this time.

We continue to have success on a national level. I would like to congratulate our students in Years 10 and 11 on winning the Royal Navy Challenge! Find out more on the next page.

At this time of year, it is important to think of others, and I could not be more proud of our Sixth Form students who have been completing their National Citizenship Award. As part of this award, the students are cycling from Rochdale to Warrington to raise money for the British Red Cross. The British Red Cross has been helping millions of people in the UK and around the world get the support they need when crisis strikes.

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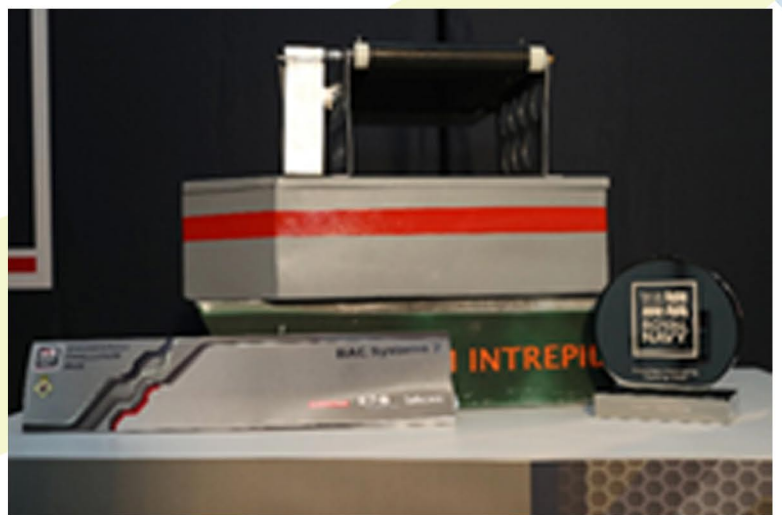
Amanda Downing  
Principal

# Royal Navy Challenge

The competition was originally scheduled to take place in March, when schools were impacted by the Coronavirus lockdown, but recently surfaced again to be completed on screen. The RN team filmed the competing vessels at HMS Sultan, so that participating schools could see months of project work rewarded.

Held in partnership with Eaton Ltd, Babcock and BAE Systems, the Challenge aimed to inspire young people to engage further with science, technology, engineering and mathematics (STEM) subjects, by designing and building a remote-controlled vessel to deliver humanitarian aid to a hurricane-hit island.

Over 60 teams embarked on the Challenge in late 2019, a quarter of whom battled on to appear in the Final, despite a prolonged period of disruption.



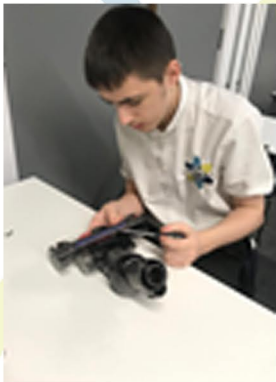
# Engineering



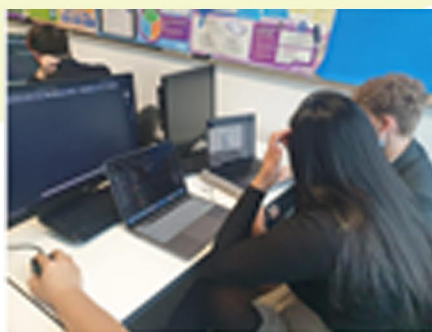
KS4 L1/2 students are studying construction, focusing on AutoCAD drawings in Year 10 and their exam unit for Year 11 learners. Engineering is focusing on the engineering world, learning about the design process. Some are learning about workshop tools and equipment for unit 7 Machining Techniques

THE  
JAMES  
DYSON  
FOUNDATION  
INSPIRING THE  
NEXT GENERATION  
OF ENGINEERS

Years 10 and 11 have also been working with the James Dyson Foundation investigating engineering products.



KS5 L3 students are learning a variety of different units including Maths, Physics, researching the use of products, manual drawing and CAD drawings for both Civil and Engineering courses, as well as Building Information Modelling (BIM).





# Computer Science

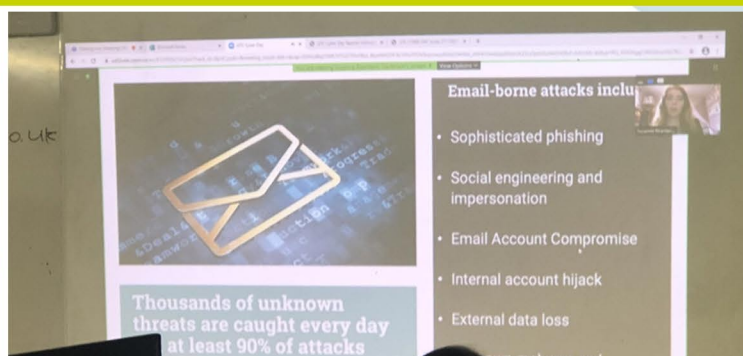


Last Friday, 26th November, our Year 10 and 6th Form students took part in the UTC Cyber Security Day.

This opportunity was exclusive to students from UTCs across the country. Students had a talk from a Cyber Defence Specialist at Darktrace before taking part in an email Phishing activity.

Later in the day the students were introduced to the Immersive Labs platform, an enrichment opportunity for students to develop their Cyber Security knowledge.

Students are encouraged to complete these activities in their own time. If students wish to sign up they can do at <https://www.immersivelabs.com> using their UTC email address.



# English

Big shout out to Lee Kendall in Year 10 for being a Reading Plus Master, having read 38,993 words in three weeks!

Shout out to Ellie Hughes and Deimante Masiukaite in Y10 for their continuing hard work in lessons.

Mrs Brown's Homework Heroes: Daniel Howard (Y11), Eli Carr (Y10) and Amandeep Swalley (Y10).

Massive thanks to Y11 for all their hard work in the English mock exams.

# Science



Congratulations to Year 11 for completing their PPEs these past two weeks. It is providing us with a good insight into what needs to be done next to reinforce and consolidate the learning ready for the final exams in the summer.

This week sees the return of Mrs Okeya to the department, and we look forward to having her back in the classroom with all year groups. In some cases, this has allowed us to reduce a class size to improve our ability to carry out lesson-by-lesson intervention and extra support where needed.

We have had some disruption these past weeks with isolation periods affecting most classes, so now it is time to get back to our 'A' game.

Students should be checking Teams and kerboodle regularly as weekly study tasks and homework will always be on there each week. This is particularly important for our sixth form scientists who have two sets of exams to prepare for in January.

# Extra-Curricular

## Balfour Beatty 'Zero Harm' master classes

Civil Engineering students are benefitting from expert advice as they learn about health and safety in the built environment.

Andrew Makinson EngTech MinstRE is Regional HSE&S Adviser for the North and Midlands at Balfour Beatty, UK Construction Services.

He has been giving practical insights into the sector via digital masterclasses throughout this term.

## Balfour Beatty Construction



## Virtual Work Experience

Virtual Work Experience with NMCN is continuing to run with Year 12 and 13 learners, who have been calculating the dimensions required for the water pipes to be fitted into the dry well. Learners meet every Monday at 3pm to have an online meeting with staff from NMCN and learners meet as a group throughout the week when they have study time to develop the project further. NMCN staff members Paul Foden, John Marsh and Kinglsey Harrison are running an AutoCAD session with learners from 3pm until 4.30pm on Monday 7th December remotely. All students taking part are required to attend the session at the UTC. Photos of Monday's sessions will be sent to you on WhatsApp.

Additionally, learners in Year 13 are continuing Virtual Work Experience with DATS a local CAD company, via Teams meetings with two Year 13 learners. The project will involve redesigning the iconic Mini Cooper Car to make it more sustainable and modern via manual sketching techniques and Fusion 360. David Mallard, our link employer, has attended UTC during the pandemic to have face-to-face meetings with learners to discuss their progress and provide guidance and advice for their next session.

# Design Slam Challenge

The Design Slam Challenge event on Thursday 26th November involved a combination of Year 12 and 13 learners studying Engineering and Art working together to design an autonomous car for the future. Learners were set a design brief at 9am from Jason Condliffe from MMU and Julian Turner from Westfield Technology Group. Learners were provided with a specification to design the car of the future and split up into seven teams. Both link employers were greatly impressed with teams 5 and 7.

As a result, learners were set a challenge to begin 'Design Slam Challenge Stage 2,' developing designs further as a whole class project, undertaking all requirements of the design process.

The final design will be generated as a 3d model at MMU at The Fablab, and a prototype small scale model created by Westfield Technology Group.

Additionally, learners will have the opportunity to have their whole class project advertised at Media City and on Social Media.



## CIAG

Year 13 were treated to some expert careers' advice in the form of a live Microsoft Teams call from Alan Poole BSc CEng FIET. Alan gave the students an insight into the opportunities a career beginning with an engineering apprenticeship can lead to. Having started as a 16-year-old electrical apprentice, Alan now leads a team of world-class engineers at Jacobs in his role as Technical Excellence and communities of Practice Director. The Year 13 engineers are now looking forward to the early careers recruitment at Jacobs opening in the Spring term.



## Sixth Form Work Experience Opportunity



Photo: DATS work experience face-to-face meeting with David Mallard, Declan Finn and Max Ison taking part virtually online due to self-isolating. Learners were presenting their progress and discussing next steps.



See Mr Hatherall for more details about this Sixth Form work experience opportunity below.

# Work Experience Candidate

## Region, location

AECOM Warrington – Water, Ports & Power

AECOM Warrington wish to appoint six enthusiastic, committed and reliable candidates for a ten-week online work experience placement.

## Work Experience Summary

### Working Week:

One-hour brief

Three to five-hour self-study

Mid-week Q&A session

### Expected Duration:

10 weeks

### Possible Start Date:

February 2021-April 2021

### Positions Available:

6

### Desired Skills:

- Good numeracy, literacy and IT skills
- Attention to detail
- Accuracy at work
- Well presented
- A team player

### Personal Qualities:

- Ability to use your own initiative
- Punctual
- Good communication skills
- Good organisational skills
- Ability to maintain confidentiality

AECOM Warrington wish to appoint six enthusiastic, committed and reliable candidates for a ten-week online work experience placement.

This is a temporary position, during which time you will have the opportunity to experience the different aspects of a commercial project and a wide range of multi-disciplinary working.

The successful candidates will, through appropriate mentoring, work under the instruction and guidance of Architects, Engineers & Project Managers with an aim of gaining valuable experience within a range of departments in a multi-national engineering firm.

### Proposed Activities:

- Basic understanding of Building Information Modelling (BIM) and relevant software packages.
- Understanding of project phases and project management.
- Architectural and Engineering Design Development.
- Safety and Environmental Awareness.
- Presentation and communication skills.

# KEY DATES



Staff CPD Session – Early finish for students 2pm	
Tuesday 15 <sup>th</sup> December	Staff CPD
Wednesday 10 <sup>th</sup> February	Staff CPD
Wednesday 31 <sup>st</sup> March	Staff CPD
Thursday 27 <sup>th</sup> May	Staff CPD

Charity Events	
Friday 25 <sup>th</sup> September	Macmillan Coffee Morning
Friday 13 <sup>th</sup> November	Children in Need
Friday 11 <sup>th</sup> December	Christmas Jumper Day
Friday 12 <sup>th</sup> March	Sport Relief



## KEY CONTACTS

<b>Safeguarding</b>	Jemma Chilton:	JChilton@UTCW.co.uk
<b>Reporting Attendance</b>	Paul Rigby:	Attendance@UTCW.co.uk
<b>Pastoral Team</b>	Andy Johnson:	AJohnson@UTCW.co.uk
<b>SEND</b>	Sam Lee:	SLee@UTCW.co.uk
<b>Finance, Free School Meals &amp; Parent Pay</b>	Lindsey Devine:	LDevine@UTCW.co.uk

## TERM DATES 2020/21



### TERM

Autumn Half Term 1  
Autumn Half Term 2  
Spring Half Term 1  
Spring Half Term 2\*  
Summer Half Term 1\*\*  
Inset day  
Summer Half Term 2\*\*\*

### DATE OF OPENING

Wednesday 2nd September 2020  
Monday 2nd November 2020  
Monday 4th January 2021  
Monday 22nd February 2021  
Monday 12th April 2021  
Friday 26th June  
Monday 7th June 2021

### DATE OF CLOSING

Friday 23rd October 2020  
Friday 18th December 2020  
Friday 12th February 2021  
Thursday 1st April 2021  
Friday 28th May 2021  
Friday 9th July 2021



[utcw.co.uk](http://utcw.co.uk)

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