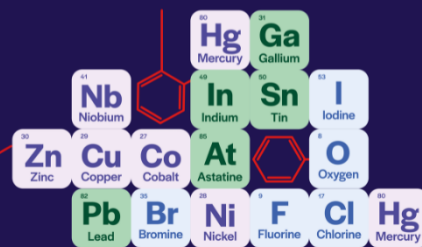


CUC NEWSLETTER

AUTUMN, WEEK 9



So many fantastic opportunities to share with you this week. Students have been out and about enjoying a visit to Falmouth University, a day of working on industry briefs at BIMA, a visit to business partner Unilever where they viewed a demonstration by a former UTC student and the University of Liverpool to compete in a chemistry competition. There can be no doubt that the experiences here change lives. Next week, parents have the opportunity to drop into our online surgeries with Year Heads. This is a chance to ask any questions you might have. Our Sixth Form drop in is focused on UCAS so if you have questions about applying for university, do join us. We look forward to seeing you then.

Word of the Week - ETYMOLOGY

Definition: the study of the origin of words and the way in which their meanings have changed.

Usage: *the decline of etymology as a linguistic discipline.*

Congratulations to our new Student Principals.

Following a gruelling round of interviews, our new Student Principals have been appointed. We are very proud of them and their exceptional performance at interview.

Key Stage 5 Student Principals

Lara Hussain
Louis Green

Key Stage 5 Deputy Student Principals

Maryam Asharaf
Max Zain

Key Stage 4 Student Principals

Oscar Steel
Ellis Jones

Key Stage 4 Deputy Student Principals

Millie Campbell
Kacie Price



Unilever

Unilever Industry Challenge

This week, students visited business partner, Unilever to work on an industry challenge. They learned about the process to create a new product (shampoo and bodywash) and had lots of demonstrations, one of which was done by Archie McLean, a recent Life Sciences UTC Alumnus who is currently on a Chemical Engineering Degree Apprenticeship at Unilever.

BIMA Day

Ignite students attended the BIMA (British Interactive Media Agency) Day this week. They worked throughout the day on industry briefs from Primark and Royal Mail to help them modernise their services for the digital world. The day was mentored by Mando Agency, one of the leading agencies in Liverpool. This was a fantastic opportunity to practise their critical thinking and soft skills like teamwork and communication in a professional environment. The winning teams were entered into a national competition.

Visit to Falmouth University

On Thursday, students on the Creative Pathway have made the long journey to Falmouth University to explore opportunities to continue their education in the creative sector. Falmouth University is a specialist arts university and is ranked number one in the UK for arts. This is an exceptional opportunity to visit the world class facilities, meet with practising artists and lecturers, be inspired and enjoy the beautiful setting.



Bionow Mentoring Project

Following the brilliant mentor matching event last week, students have now been paired with their mentors. They have exchanged their first professional emails and are making arrangements to complete their first mentoring sessions on zoom.

Understanding Your Feelings Course

A NEW online course 'Understanding your feelings (for teenagers only!)' has been added to the Solihull online learning programme! This course was created because of the rise in mental health problems in young people during the COVID-19 pandemic. It introduces teenagers to the bedrock of mental health...recognising and processing feelings in the context of relationships. Take advantage of this pre-paid, locally funded offer, www.inourplace.co.uk Access code: PURPLEBIN. Create an account (or sign in), and start learning, GO!



Digital Health Team: This week we launched the Digital Health Team and had an excellent turnout for our first after school session on Wednesday. There was a masterclass from a Clinical Entrepreneur who developed an app to help children with “glue ear”. Next week, we will be learning how to do A-E assessment in the healthcare suite. Do come along on Wednesday.

Cosmic Mining: Year 12 PBL Students are looking at Astrophysics and working with the James Webb telescope to try and identify new stars and constellations using spectrometry and data sets from IRIS.

Knife Savers: We are working with the NHS on a new project across Liverpool to embed blood packs (think defibrillators) across the city to stem the blood flow of stabbing victims and save lives. We are also looking at education of young people across the city so that they can manage a major bleed safely as part of their first aid training and the implications of knife crime.

Ignite Science: This week, students have been making pH indicators from red cabbage.

Ignite PBL: Students started the DNA Skills Lab by learning about the structure of DNA through making models from sweets. They used their candy models DNA to explore the effects of different types of mutation on the sequence of bases. Next they will extract and purify DNA from animal tissue.

Year 10 PBL: Emily in Year 10 is investigating the potential of plant extracts as antimicrobials. Emily chose good health and wellbeing as the UN goal she would focus on and wanted to contribute towards solving the problem of antimicrobial resistance. There are a wide range of fascinating year 10 United Nations Development Goal projects ranging from solar distillation devices through to computer games designed to highlight the choices families need to make because of the cost of living crisis.

Chemistry: Year 10 have finished learning about the structure of the atom, and are now starting to explore how and why atoms bond. Year 11 have been learning about crude oil and how we process it to make it more useful. Year 12 have been exploring shapes of molecules and intermolecular forces. We have built balloon models to help us visualise the shapes in 3D. Year 13 have been studying the transition metals, and learning the chemistry behind the bright and varied coloured complexes.

Health: Sophie Chamberlain from Alternative Futures Group visited to speak to Year 13 students about work as a care worker with the potential to provide some part time jobs to support students to build their experience ahead of working in the sector or going to university.

Physics and Engineering: Year 10 have started to create designs using Fusion 360 in engineering and have started to understand the link between momentum and collisions in the context of both particle accelerators and road collisions. Year 11 have continued with their work on engineering design through disassembly.

Engineering Work Experience with Surface Transforms: Hariksan and Mika in year 12 have been lucky enough to participate in work experience with Surface Transforms. These opportunities and industry relationships have a significant impact on our learners.

Visit to Smart Factory Expo: The Engineering Pathway students have been putting together their final designs for the smart factory expo next week where we will be exhibiting. On the stand we will be joined by our partner companies Autdoesk, Bulgin, BAC, Surface transforms and Vinci. We will be sharing what a difference an industry driven education makes to our students.

