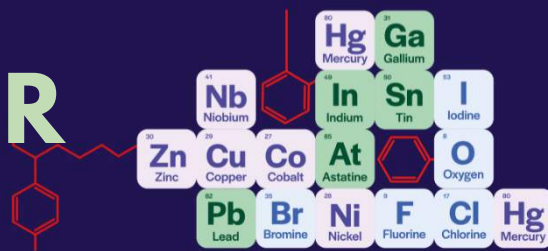


CUC NEWSLETTER

SPRING, WEEK 1



It has been lovely to have a full week back in the building. This is a very busy period and students are starting to realise the intensity of preparation that is required for GCSE and A Level exams. Students are working hard on completing coursework and ensuring they are in the very strongest position going into their summer exams.



University of Liverpool STEM Workshops

Fifteen Ignite students enjoyed a day of STEM workshops on Friday as part of a long term partnership with Liverpool University Widening Participation Department. Activities were designed to showcase University life and encourage students to aspire to attend university. The activities were challenging and diverse, giving insights into departments such as mathematics, geography and chemistry. On this trip students enjoyed "Dragon Quiz" a mathematical challenge against the clock. One of LLS teams was the top scoring team across the whole event! We then had an interesting session which showed how trees can be used to "travel in time" because the spacing and colour of tree rings reflects the climate they grew in. There was a discussion of variability and ambiguity in data, and our students were complimented on the maturity with which they considered these issues. Finally we attended a chemistry session where students made alginate balls containing indicator solutions, and used them in real life scenarios to search for contamination in samples. This session was a huge success, Lola said "This is the best experiment I have ever done!" The session required excellent practical skills, and also skills in analysis and lateral thinking. The event concluded with a plenary session where students learnt about the courses available at Liverpool University. The session was part of our ongoing work to support and encourage students into University.

Student Leadership Team

Our Student Literacy lead, Yasmin, met with Jill, the senior team and the staff Literacy leads on Monday to develop ideas to support Literacy initiatives. On Tuesday, a team of Student Leaders met with Dr Moore and Fiona and had a very informed meeting around school culture and came up with many ideas. The Year 10 Student Leaders along with Mr McKenzie have made a huge effort to organise all of our donated uniform and essential items students may need. We are especially in need of any school ties, UTC Jumpers and Blazers and plain white shirts in excellent condition. Any donations can be passed to reception. If students are in need of any items please get in touch and we will do what we can to support. We are also collecting books suitable for teenagers aged 13-18 and these can also be brought to reception.

Useful Dates:

Wednesday 17th January - Year 11 Parents' Evening. School will close at 3pm

Thursday 19th January - Head of Years Surgery
Zoom Drop in Session

Wednesday 24th January - Year 13 Parents' Evening. School will close at 3pm

Absences - If your child is absent from school due to illness or for any other reason, we do ask that you contact the school by phone or email on the day of absence, before 8.30am. Please state the reason for absence; this should be done on each day of absence.

0151 230 1320

student.services@lifesciencesutc.co.uk

Advice from UK Health Security Agency

The UK Health Security Agency (UKHSA) is reminding people that winter illnesses continue to circulate at high levels, but following simple steps can help minimise the spread of illness and protect wider communities.

- If your child has a fever, they should stay home from school.
- Reminding children about the importance of good hand hygiene and respiratory hygiene is also key, so catching coughs and sneezes in tissues then binning them is another simple way to help stop illness from spreading.
- Taking up vaccinations when offered.

We will give reminders in assemblies about the importance of hand washing.

After School Clubs - You can access Chess on Mondays, Drama on Wednesdays and Creative Writing on Thursdays. If you have ideas for other clubs, please speak to the Student Leadership Team or Miss Mallo.

Word of the Week - UBIQUITY

Definition: the fact of appearing everywhere or of being very common.

Usage: *The ubiquity of mobile phones means you don't really need a watch.*

Zero Tolerance of Abuse of Staff

The NST has a zero-tolerance approach towards abusive language, violence, aggression or harassment towards our employees, Governors and volunteers.





Photography: Year 10 are learning how to creatively blend layers in photoshop using textured images and lowkey portraits here are two good examples. Image 1 is by the wonderfully talented Niamh O'Brian and image two was created by the Delightful Jack Philips, both from year 10.

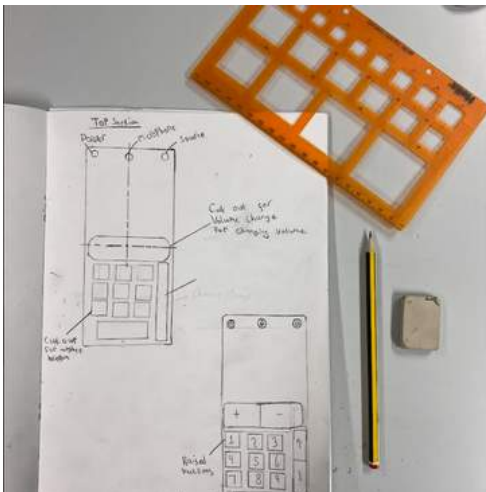
Applied Science: Year 13 are having their Contemporary Issues in Science Examination this week and have been preparing well. Year 12 have been preparing for their Principles and Applications of Science Exams in Chemistry, Physics and Biology next week.



Psychology: Year 10 are learning about different revision strategies they can use for psychology revision. This is the focus for the next two weeks to help students to prepare for their Perception Assessment which will take place week commencing 20.1.23. Year 11 completed the content for topic 7/8 this week - Language, thought and communication. They now move onto their last paper 2 topic Brain and Neuropsychology. Year 12 have studied correlations and case studies along with their fun sampling with skittles lesson. Year 13 started their final topic for paper 3, Aggression, this week learning about the neural and hormonal influences of aggression and genetic factors influencing aggression.

Criminology: Year 12 have been discussing the difference between the terms crime and deviance looking at examples and investigating common examples Year 13 have been completing unit 3 controlled assessments and have started to understand the governmental and judicial processes involved in law making.

History: Year 9 have started focusing on their feminism element of The Fight for Equality and are looking at the role of the Suffrage movements this week. Year 10 have been revising and completing their Chapter 3 assessment. Year 11 have been examining Roosevelt's New Deal and the impact of the Great Depression. Year 12 are focusing on revising Henry VIII and Wolsey and also the Boston Tea Party. Year 13 have sat the first part of their anti-Semitism coursework in timed conditions and are studying 'How revolutionary was the American Revolution?' as well as life in Elizabeth's Court.



Part Name	Image	Quantity	Dimensions	Mass	Material	Interaction with other parts	General Notes
Standard buttons		14	Depth: 12mm Diameter: 10.5mm		ABS Glassy	Flashes down on button pads which pushes on PCB. The contacts do carry out a certain function related to the A, B, X and Y functions on the console.	Glossy finish reduces friction when pressing down the button to reduce the effort needed to press it. Helps make the controller feel responsive. Small cutouts on the bottom of the controller make sure that the right button is in the right place and to make it straight when using the...



Engineering: This week, another Year 9 Engineering group started their journey on the road to being future engineering designers when they had their first lessons with Autodesk Fusion 360 3D design software. Year 10 have been working on the design development of their TV remotes as part of their level 2 coursework. They have been creating drawings that show how their buttons will function in relation to the rest of their design. Year 11 have completed their January exam for Unit R105 on the Principles of Design Engineering. Now they will be finishing off Unit R106 on Analysis Through Disassembly by completing a final evaluation of the processes they have carried out. Year 13 have moved onto the Additive Manufacturing learning objective of their Unit 17 Project on Computer Aided Manufacturing. This week students have been testing out different printing techniques and orientations in order to assess the overall effectiveness across the different methods and decide on which is best for the development of the housing for a Fibre Optics Expanded Beam Connector as supplied by world leading connector company, Bulgin which will help advance covert communications networks.