

CUC NEWSLETTER

SUMMER, WEEK 5

So much news to share it has been hard to fit it all in. Needless to say, despite half the school being focused on exams we are still very much enjoying the life changing experiences that make this the CUC - much more than just a school. Read on to find out what we've been up to.

Unifrog: Deadline - 23/05/2024

Year 9 (Ignite): Careers and the climate Task
Year 10: What comes after school: the main learning pathways Task
Year 12: Is a UK apprenticeship right for me? Task



Liverpool Arabic Teachers Council Conference 30th May

Are you an MFL educator? Are you interested in Arabic Language and culture then please join us at the free CPD event on 30th May at Life Sciences UTC 10-2pm, with guest speakers Sara Mallo, Manal Mahjoub, Dalia Ahmed and Salwa Mahamed. Register for free at www.liverpoolarabicteacherscouncil.com

Miss Allason's Maths Conundrum

Last week the maths conundrum asked, my twin lives at the reverse of my house number, the difference between our house numbers ends in two, what are the lowest possible numbers of our house numbers? The answer to this question was that the lowest possible numbers for the houses are 19 and 91 and the difference is 72. This week's conundrum asks that if a hen and a half lay an egg and a half in a day and a half, how many eggs will half a dozen hens lay in half a dozen days? Come back next week to find out this week's answer!

Creative Boost Sessions

Are you in Year 10 and 11 and want to improve your current Art, Graphics or Photography grade? Join us every Thursday 4-5pm in 306 where you can get that added educational boost you need. Don't forget pizza and chips will also be provided

Year 11 - Struggling with the cost of prom?

For more information call the hub on 01744 733233 or email florence@teardrops.org.uk
All information can be found on our social media pages. @teardropssupporting yourcommunity @teardropsorguk

Bushcraft Reminder

A reminder for any Year 9 or 10 students' who might be interested to join the trip to Bushcraft Camp at Castle Howard in July, that a £45 deposit needs to be paid to student services or on www.wisepay.com by Friday 31st May as well as completion of the permission slip attached to confirm your place.

Word of the Week - PRAGMATIC

Definition: dealing with things sensibly and realistically in a way that is based on practical rather than theoretical considerations:

Usage: "a pragmatic approach to business ethics"

Vaping – We would like to remind you that we do not allow students to bring items such as cigarettes, lighters, matches or e-cigarettes/ vapes into school.

Zero Tolerance of Abuse - The NST has a zero-tolerance approach to abusive language, violence, aggression or harassment towards employees, governors and volunteers.



Dot-Art Winner: The Studio School

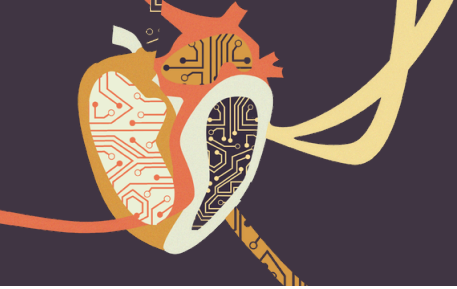
Back in February, The Studio School submitted entries from nine of our talented Ignite students to the Dot-Art competition. Last week Laura Connolly was crowned the winner for her original character illustration 'Alter Ego'. Alongside Laura, the overall winners and runners-up for each school will be revealed at the Dot Art Annual Prize Giving and Exhibition Preview on 5th June at St George's Hall. Laura and the other shortlisted students will receive a prestigious Dot-Art School certificate and prize presented by the Lord Mayor of Liverpool. After the ceremony, guests will be invited to attend the Walker Art Gallery to preview the exhibition. The exhibition will then be available to the public from 6th June to 7th July 2024. It's a celebration waiting to explode with joy and recognition! The biggest congratulations to Laura and our 2nd and 3rd winners, Max for *Dusk* and Hawa for *Freedom*, as well as our other entries Ellis (*Identity*), Molly (*Creature*), Wai (*Connections*), Sonia (*Paradise*), Kitty (*Kingdom*) and Ethan (*Impact*). If you would like to see The Studio School's entrants then please head to https://schools.dot-art.com/schools/the-studio-school-liverpool_408/ and if you would like to book tickets for the Prize Ceremony & Exhibition Preview then go to <https://www.eventbrite.co.uk/e/dot-art-schools-secondary-prize-giving-ceremony-exhibition-preview-2024-tickets-891130945647?aff=oddtcreator>



The Studio School Exhibition

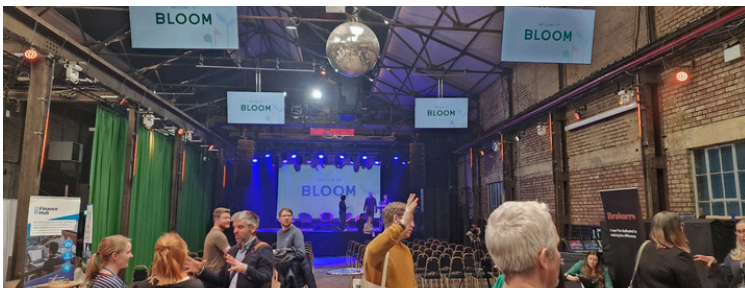
On the 10th of May, our Year 12 Studio School annual exhibition took place at Elevator Studios Gallery, accessed via Arts Bar Baltic. This year our students' chose the theme 'The Past' as a starting point and produced an array of designs through painting, drawing, photography and digital illustration. It was great to see so many people supporting our pupils' exhibitions, with the gallery being on show until Thursday 23rd May for the public to enjoy. A big thanks to [Elevator Studios](#) and [Arts Bar Baltic](#) for hosting our engaging exhibition and we can't wait to see what's in store for next year's wave of students' artwork.





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Bloom in Baltic

Last week, we attended the inaugural Bloom in Baltic event at Camp & Furnace. Our Business students volunteered alongside our teachers, both soaking up the inspiring guest talks from a variety of companies and individuals across the city region. The conference was focussed on business challenges in Liverpool and beyond looking at finance, talent, support, growth, etc. Our students also listened to the keynote talk delivered by Digital Consultant, Media + AI [Dan Taylor-Watt](#) regarding the positive and negative impact of AI which was thoroughly enjoyed by all. A big shout out to our Business students who volunteered from 7.30am all the way through till 4pm, helping out where necessary and networking with the wider digital and creative industry. It was a day filled with practical advice, ideas and good conversations and we are looking forward to our students' deepening the connections they made in the future!



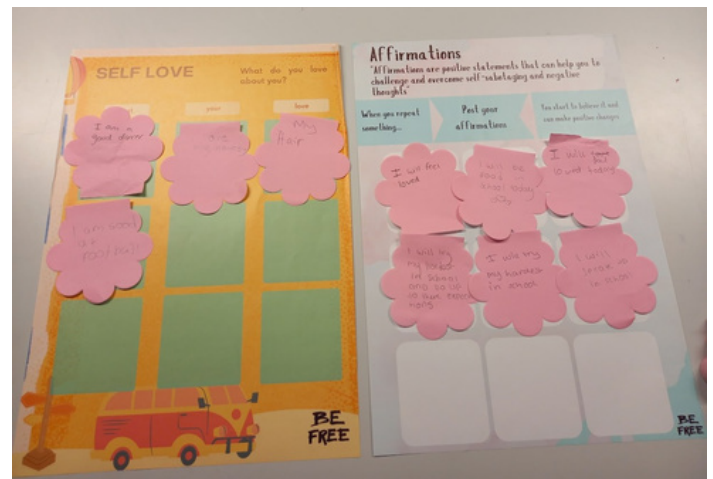
Observation Hive

On Tuesday Liverpool Life Sciences were visited by Lesley, Roger and Damien from The Urban Beekeepers Association. They brought with them their huge 8-frame observation beehive and a wealth of experience! Students from across KS4 were able to observe 30,000 bees going about their business in the hive and had a huge range of bee and honey-related questions answered. Highlights included seeing the famous "waggle dance" (which bees use to communicate) and putting our ears to the air vents to hear the sound of the hive! We first collaborated with the beekeepers in a Scanning Electron Microscope project starting last winter and culminating in a superb Big Bang competition entry for Zac and Sam in Year 10, but the work has broadened out to include a term of PBL projects, trips out and a long-lasting partnership.

Be Free Campaign

This week Rachael Fell from the Be Free Campaign, a mental health charity that aims to give young people aged 11-25 the support they need so that they are better equipped to cope with mental well-being struggles, delivered a positive affirmation session to a small group of our Year 9 girls, which aimed to help the group challenge and overcome self-sabotaging negative thoughts. Rachel, a dedicated staff member who has committed her time to positively influence the way young people learn about mental health, interacted with our students in a relaxed classroom environment, giving guidance when needed so that they could complete the self-love and affirmations activity sheets to the best of their ability. Holly, Isla and Betty really enjoyed discussing with each other the aspects that they love about themselves and what they are passionate about, with their work being observed in the activity sheets displayed.

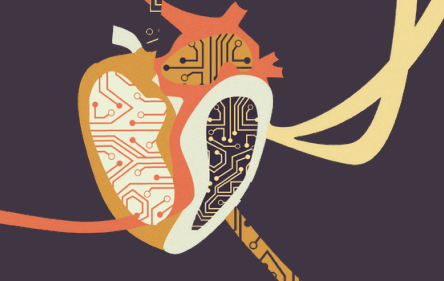
A big thankyou to Be Free Campaign for delivering such an uplifting session and we are eagerly awaiting their return in the near future! For more information on the charity then please head to <https://www.befreecampaign.org/>.



Phoenix Contact Visit

This week we were excited to welcome Tony Deane and Andrew Ellis from Phoenix Contact, who visited Liverpool Life Sciences UTC and The Studio School to demonstrate their ground-breaking open-source PLC platform, PLCnext, to our Engineering and Programming students'. This platform is set to revolutionise the world of industrial control and automation, providing our students with invaluable hands-on experience and insight into the latest advancements in the field. For more information on Phoenix Contact please head to <https://www.phoenixcontact.com/en-gb/>





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Bionow Conference

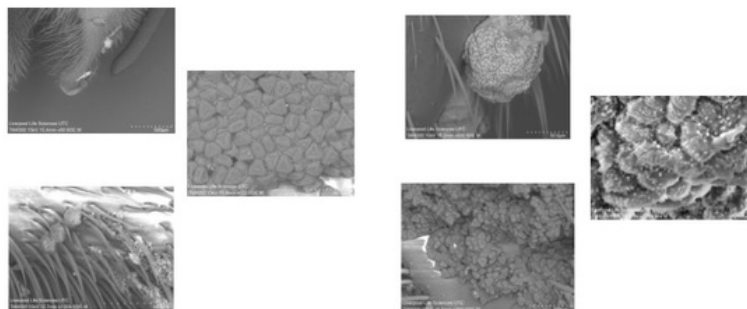
On Tuesday, Year 12 Applied Science BTEC students' attended the Bionow 2024 Pharma Manufacturing Conference at the Crown Plaza Hotel in Speke. Students' had the opportunity to attend talks delivered by delegates from companies including GSK, Astra Zeneca and Pharmaron. The conference covered aspects such as Innovation in Digitisation, Emerging Technologies, Skills for the 21st Century Workforce, Technology Transfer and The Place to be for Pharma Manufacturing. For our Liverpool Life Science pupils, learning about the array of career paths available in the industry and networking with the companies at the conference was a unique experience for them and was thoroughly enjoyed. We would like to thank Geoff Davison, CEO at Bionow for providing us with this amazing opportunity. If you would like to find more information then please head to <https://bionow.co.uk/about-us>.




Work Experience at Wirral Council

This week, Alexander a Year 13 student at Life Sciences UTC completed 2-day work experience with Wirral Council. The 2 days were split between the Electrical & Civic Office and Wirral Green Party. The first day involved research projects and learning about electoral portals, he also received a tour of Birkenhead Town Hall. On day 2, Alexander went campaigning in Bebington, delivering leaflets and speaking to members of the community about the issues they face. He learned a lot about the processes of funding for local authorities, what happens when people sign up to the electoral register, the duties of local authorities, and the electoral history of the Wirral. We would like to say a big thank you to Councillor Jason Walsh for ensuring that Alexander got the most out of his experience and for guiding him through the green environmental policies that aim to help protect and sustain the planet. Alexander thoroughly enjoyed his work experience. We can't wait to hear what's next in store for him!


Pollen Identification; Bee Bread & Hives



PETase


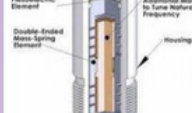
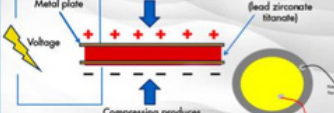


- Esterase enzyme
- Works by catalysing hydrolysis of PET polymers into MHET
- Naturally occurring in *Tenebrio molitor* internal microbiome
- (ethylene terephthalate)_n + H₂O → (ethylene terephthalate)_{n-1} + MHET



Microbiome culture

- Homogenize mealworm segmented from metathorax to segregate midgut
- Liquid culture formed by inoculating sample in luria broth
- Plate culture to isolate individual colonies

KEEP WOMEN SAFE



The Big Bang Competition

We are thrilled to announce that this year has been the biggest yet for students' entering their projects for the Big Bang Competition. The Science and Engineering competition aims to inspire inquiring minds to ask questions and challenge facts, allowing students' to transform the world. For Liverpool Life Sciences UTC, 17 projects across all years were entered, with all of the entries being extremely well thought out and developed. The dedication and quality of the work from all of our students' who participated were exceptional. From the entries, four of these have been shortlisted at the finals. Two of the projects are shortlisted for specific partner prizes; The Energy Institute Climate Change Award and the 65th London International Youth Science Forum. Both of these have had their final judging over video call in the past two weeks and we wish them the best of luck.

We are also delighted to announce that Sam Davies and Zachary Ferguson have been selected to showcase their project, Pollen Identification; Bee Bread & Hives at The Big Bang Fair on the 18th of June at the NEC Birmingham where all the prize winners will be announced. Here, our students will participate in workshops, career panels and hands-on activities. We are very proud of all of our students' projects and we can't wait to see what's next in store for them! For more information on The Big Bang Fair then please head to <https://www.youtube.com/watch?v=W7-d1Xoi9Ns&t=12s>