'STEAM for Good'

STEAM EDUCATION

https://atadastral.co.uk/

This Adastral Park Education & Skills Newsletter brings you the top-level news from each member of our education & skills team in one place – celebrating our schools and industry collaborations.

The Adastral Park team support different aspects of school and student needs from running events to create STEAM [Science, Technology, Engineering, the Arts and Maths] interest in young people, to providing meaningful industry encounters, through to work experience and careers fairs.

Don't forget to make the most of the virtual content that we have available https://atadastral.co.uk/careers-education/

Please forward this Newsletter onto all Science, Technology, Engineering, Arts & Maths Teachers in your school. If this email has been forwarded onto you by someone other than us but you would like to receive the info directly, please email: computerscience@bt.com with your email address and school and we'll add you to our mailing list.

INTRODUCTION

Next Academic Year
We can't believe that it's almost the summer holidays! We've been busy planning our programme for next academic year (more information further down this newsletter) and we'd love to **hear your opinions**, especially:

- **What have you and your students enjoyed? Or not enjoyed?**
- **What have you and your students found useful?**
- **What would you like to see us do in the future – both face-to-face and virtual?**
- **Do you use the online resources? Why or why not?**

Please share your views with computerscience@bt.com

Could you join our Teacher Panel?
We're looking for teachers to join our **teacher panel.** The panel will act as an advisory board for our programme, keeping us up to date on what is happening in schools and making sure our programme is engaging and inspiring.
If you'd be interested to join, please let us know. We are especially looking for more primary teachers. Meetings would be held once a term, with a virtual attendance option. Email computerscience@bt.com **Thank you** to those who've volunteered already.

Outreach Programme - Do you have a Venue we could use to run activities?
We're aware that for some schools the cost of transport to Adastral Park prevents them taking part in our face-to-face activities. We are looking for alternative venues where we could hold events which are within walking/shorter travelling distance of several schools. If you have a venue with Wi-Fi access, where we could hold events for around 60 students at a time, please let us know. Email computerscience@bt.com
A **huge thank you** to **Clifford Road Primary School, West Suffolk College** and **Woodbridge School** who have kindly offered the use of their facilities.

DATES FOR YOUR DIARY

FACE TO FACE EVENTS
- **3rd & 4th October: Intro to Physical Computing, Yr 5 & 6**
- **18th Oct 2023: BT Business Enterprise Day, Yr9**
- **30th Oct 2023: Making Tech Relevant, Teacher Event**
- **17th Nov: Computational Thinking at Clifford Road Primary – Yr 3 & 4**
- **Thu 7th Dec 2023: ChriSTEMas Lectures, Y11+**
- **2023-2024: Skills Escalator Days, Yr2**

CHALLENGES & RESOURCES
- Sustainability Poetry Competition
- Royal Society - The Young People's Book Prize
- Teach Computing – Computing Hub Courses
- Cyber First Girls Competition
- Free Micro:Bits and Resources
- IET Faraday® Challenge Days

PAST EVENTS & ACTIVITIES
- June 2023 Technology Day

LIFE AT WORK
- Work Experience
- Insights Experience
- Year 8/9 assemblies

EARLY CAREERS
- Opportunities at BT

DATES FOR YOUR DIARY

TITLE: **Intro to Physical Computing**
DATES: **Tue 3rd or Wed 4th October 2023**
AVAILABLE TO: **Years 5 and 6**
PREREQUISITES: **ScratchJr/Scratch/Blockly Programming knowledge**
                       VERY useful
LOCATION: **Adastral Park, Martlesham Heath, IP5 3RE**
TIMES: **9.30am-3pm**
PLACES: **Max 15 students per school**

DETAILS: Introduction to programming types of Physical Robots using different block based programming environments.
Email computerscience@bt.com to reserve places

TITLE:	**BT Business Enterprise Day**
DATE:	**Wed 18th October 2023**
AVAILABLE TO:	**Year 9 ***
LOCATION:	**Adastral Park, Martlesham Heath, IP5 3RE**
TIMES:	**9.15am-3.15pm**
PLACES:	**Max 16 students per school** [2 groups of 8]
	Plus Year 12/13 volunteers (see details below) **

Business & Enterprise

After a bit of a hiatus, we're pleased to say we can now announce the return of our "BT Business Enterprise Day"! In case it's new to you, or a gentle reminder is needed…

BT Business Enterprise Day is a day of pure commercialism, where "companies" compete in a competitive capitalist business simulation, striving to essentially make the most money in a day to win.

Companies are formed from 8 to 10 Year 9* students** (from the same school) and they will compete against companies from other local schools primarily building and selling "virtual" cars…

But, cars cost money! So this has to be earned on the day through activities such as 'investments', share dealing and inter-company trade.

Your students will learn a lot about delegation, team work, managing loans, handling cash (using our electronic bank), advertising, planning ahead, negotiation, thinking-for-themselves and basically dealing with others!

Some specifics each company will need to do include:

- Applying for a startup loan, with a simple business case attached, for their initial capital injection.
- Tracking and building up "car parts" – many of which are *only* available from other companies.
- Tracking their loan and making repayments on time.
- Managing their "online" (private to the event) bank account (using software our volunteers created).
- How stock markets work, and trading shares on our own "online" (private to the event) stock market (using software our volunteers created).
- Generating cash for "car parts" by investing in physical team activities, quizzes and questionnaires which all generate a "return on investment".
- Getting "Government"/regulator paperwork done on time and accurately.
- Delivering a short "Dragon's Den" presentation with Q&A to an investment panel (details of the simple presentation required will be given ahead of the event)
- Dealing with "The Union" when their (virtual) car-part factory workers suddenly go on strike.

If you think you're interested, initially we can only take a maximum of 2 teams/companies (of 8 to 10 students) per school as we have a maximum number we can't exceed. If you'd like additional teams/companies then let us know and we'll do our best when numbers are looking stable.

If you've any other questions, please do get in touch either on this email address or directly to <u>andrew.trawford@bt.com</u>

* In the past we've mixed Year 9 and Year 10 – but have found that even that one year of difference helps the older students, so for this event we're strictly sticking to a single year group.

** We have a fair few BT Volunteers who make the event a success, but we also rely heavily on Year 12/13 students from the schools taking part. These students help run the activities, bank, stock market, etc – so if you're also able to bring along 3 or 4 Year 12/13 students who can help on the day (full but super easy instructions will be given) then that would be awesome.

TITLE: **Festival of Learning: Making Tech Relevant:**
              Linking Tech Industry with Curriculum to
              Bring Learning Alive!
DATE: **Monday 30th October 2023**
AVAILABLE TO: **Teachers**
LOCATION: **Adastral Park, Martlesham Heath, IP5 3RE**

A festival style conference with three overlapping themes, underpinned by evidence based practice - suitable for all phases and all profiles of education professional. Panel debate, CPD workshops and incredible immersive demonstrations.

- Edtech to improve learning: Growing Skills and Confidence in Classroom Pedagogy
- Linking Careers & Industry with Curriculum: Infusing what we teach with industry Insights and experience
- Human Skills in a Technological World: Leadership, Mentoring, Soft-Skills & Ethics for a Fast Changing World

Register here: festivaloflearning.edlink.uk (FREE for a limited time)

TITLE: **Computational Thinking**
DATE: **Fri 17th November 2023**
AVAILABLE TO: **Years 3 and 4**
LOCATION: **Clifford Road School, Ipswich IP4 1PJ**
TIMES: **Morning or Afternoon**
PLACES: **Max 15 students per school**

DETAILS: A fun mixture of plugged and unplugged activities where the students will practice using computational thinking processes.
Email computerscience@bt.com to reserve places

TITLE: **ChriSTEMas Event**
DATE: **Thu 7th Dec 2023**
AVAILABLE TO: **Years 11-13**
              who have strong interest in a career in STEM
LOCATION: **Adastral Park, Martlesham Heath, IP5 3RE**
TIMES: **9.30am-3pm**
PLACES: **Max 12 students per school**
DETAILS:

- An overview of what goes on at Adastral Park, including insights from our Apprentices & Graduates
- Keynote Talk – details TBA but it will be an exciting in depth talk on the future of technology in the workplace
- Hands on exhibits from different companies involved in STEM
- An opportunity to visit the BT Showcase Facility featuring technology demos across industry-themed showcases

Email computerscience@bt.com to reserve places

Skills Escalator Days Year 2

The Schools Enrichment Team will be at these Events. For more information please contact: Victoria.fiebelkorn@wsc.ac.uk

SKILLS ESCALATOR DAYS (SEDs)

Activities focussing on career related learning, delivered by local government, business, and industry, for pupils in school year 2 aged 6 to 7 (unless otherwise stated) at the following locations:

Ipswich 13 July 2023
SUFFOLK ONE, IP8 3SU

Ipswich 14 July 2023
11 FORE STREET, IP4 1JW

Newmarket 20 September 2023 NEW VENUE
TATTERSALLS PARK PADDOCKS, THE AVENUE, NEWMARKET, CB8 9AY

Bury St Edmunds 9 & 10 October 2023
WEST SUFFOLK COLLEGE, BUILT ENVIRONMENT CAMPUS, IP32 6SR

Bury St Edmunds XR SED for Years 3 & 4 date tbc January 2024
UNIVERSITY & PROFESSIONAL DEVELOPMENT CENTRE, IP33 3YU

CHALLENGES & RESOURCES

Sustainability Poetry Competition – Years 4 & 5

BT Adastral Park would like to invite schools from the local area to take part in a

SUSTAINABILITY POETRY COMPETITION

to support our upcoming Sustainability Festival.

The competition is for students currently in Year 4 or Year 5 to write and illustrate a poem on the theme of sustainability.

You could choose saving the rain forests, turning lights off, recycling or any other sustainability topic which is important to you. We are looking for the most inspiring and creative poems and will be displaying ALL entries at our Sustainability Festival in September.

This festival will see over 1,000 people from many different companies, government and universities coming to Adastral Park to help shape the future and ensure that we are doing everything we can to help save our amazing planet.

The winning entry will receive a **£20** book voucher, plus **£100** in book vouchers for their school. Runners up will be awarded a **£10** book voucher and **£70** book voucher for their school.

Paper entries can be dropped at Adastral Park Reception or posted to Lisa Ford, Orion pp5/5, Adastral Park, Ipswich. IP5 3RE (please mark clearly POETRY COMPETITION)

Electronic entries in PDF format can be emailed to computerscience@bt.com

Please ensure entries are **no bigger than A4** in size and that they have the **name of the student, their year group and school** on the back. Please do not include names on the front.

Entries will close on 8th September 2023, with winners announced after the event which is taking place in the 13th September 2023.

Royal Society - The Young People's Book Prize

The Young People's Book Prize aims to promote literacy in young people and to inspire them to read about science. It also supports the writing of excellent, accessible STEM books for under-14s.

Every year we invite school and youth groups to join our collection of judging panels from across the UK who pick the winner of the Young People's Book Prize. Over 450 judging panels receive a free set of shortlisted books – it's a great opportunity to receive six brilliant books aimed at enthusing and exciting children about science.

Schools and youth groups can get involved with the Prize. The call for judging panels will open in September 2023.

Teach Computing – Computing Hub Courses

There's still time to book onto Computing courses **before the end of term, and claim £205 per person to support cover**.

The Computing Hub can also provide a range of support, including:
- Direct school support
- Implementing GCSE Computing
- CPD
- Accreditation
- Computing Quality Framework – online self-review tool.

Full details visit here: Computing Hub: Helping you Teach Computing – Free CPD, Resources, Curriculum & Direct Support (edlink.uk)

You can also contact us directly to ask questions or request support:
- General: teachcomputing@wsc.ac.uk
- Secondary: jaime.beaumont@wsc.ac.uk
- Primary: pam.popay@wsc.ac.uk
- Primary: nick.templeton@wsc.ac.uk
- Hub lead: rob.walden@wsc.ac.uk

CyberFirst Girl's competition

CyberFirst have reviewed how they run the Girl's competition. The entire competition will now be online with the 13 regional and home nation top scoring teams across the UK being invited to a celebratory event.
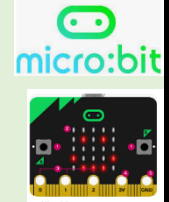
The registrations open 25th September 2023, with the competition starting on the 20th November 2023 and closing on 29th November 2023.

More details on the CyberFirst Girls Competition can be found here: CyberFirst Girls Competition - NCSC.GOV.UK

Free Micro:Bits!
Micro:Bit Educational Foundation, BBC and Nominet have joined forces to offer 30 BBC Micro:Bit devices to every primary school in the UK. Applications are now open until 18th December 2023. One application per school. Visit microbit.org/thenextgen-registration/

Micro:Bit Resources
Visit the Micro:Bit website to learn how to sense, measure and log light; temperature; sound; movement and magnetism. Explore buttons; LEDs; Radio; Networks; Simple Circuits and PINs. Add code to bring the Micro:Bit to life. Change the code to transform it into something new.

Micro:Bit offer free professional development courses and live webinars for those getting started as well as more experienced teachers. Lots of teaching resources are available along with Micro:Bit classroom where you can run whole class sessions, easily share code with students and keep a record of progress.
Microbit.org/teach/featured/

IET Faraday® Challenge Days
An annual competition of STEM activity days with a real-world challenge for pupils aged 12-13 years. IET also offer printable resources and guidance to run your own Challenge, choosing a time and theme that suits your students. The 2023-24 IET Faraday® Challenge season will start in September 2023 and run right through to June 2024. For more information please visit: IET Faraday Challenge Days (theiet.org)
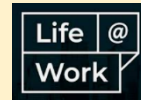
PAST EVENTS & ACTIVITIES

Technology Day - June 2023
Around 200 Year 9-13 students, from 16 different schools came to Adastral for our Technology Day. The aim of the day was to show the students how technology is used in lots of different industries, how it impacts their lives and the varied range of careers on offer. The day kicked off with a keynote talk on Digital Deception, including a deep fake David Attenborough, then students visited zones all around Adastral Park, including DigiTech Centre, AI, drones and robotics, health, digital industries and the world of work; finishing off by firing questions to our careers panel.

LIFE AT WORK

[Adastral Park](#) is a fantastic campus, and we like to reach as many students as possible to let them know about the opportunities and to inspire and guide them into a bright future.

Work Experience at Adastral Park
Every year we dedicate 9-10 weeks in summer to work experience, and we are in the full swing of it right now. Below are our dates looking forward into 2024!
- The 2023 experience period: 22nd May - 28th July
- The 2024 experience period: 20th May – 26th July
- Duration of a work experience: 1 week, Monday - Friday
- Suitable age group: mainly year 10, older students welcome
- Registration for 2023: Closed
- Registration of interest for 2024 opening: 4th September 2023
- Find out more: https://atadastral.co.uk/life-at-work

Insights Experience
This is a half day visit to Adastral Park where you will learn about BT, Adastral Park and Careers opportunities
- Registration of interest: Open now
- Read more and registration link: https://atadastral.co.uk/life-at-work
- School staff with interest in booking a student group (up to 16 students + 2 staff) or a staff group, please get in touch with rika.nauck@bt.com directly. Please allow for a minimum of 6 weeks' notice.

Year 8/9 Assembly lectures
We trialled a Year 8 'Sustainability' assembly for 330 students with great success. A 30-minute lecture using the British Science week material was very well received by students and teachers and built the kick-start to their sustainability curriculum work. This was a first introduction to BT, Adastral Park and the available career options as well.

We are looking into making this a staple of your programme and schools who are interested in participating to build this together with us please get in touch with rika.nauck@bt.com directly.

EARLY CAREERS

Opportunities at BT

We'll keep you updated in the autumn when more fantastic opportunities for school, college and university leavers programmes starting in Autumn 2024 become available.

MEET THE TEAM

Don't hesitate to contact our fantastic education team - they are here to help you!
email: computerscience@bt.com / rita.nauck@bt.com

Shane Allum, Luke Johnson, Sarah Mackenzie, ,Penny Davies, Rika Nauck, Carol Fletcher

If you no longer wish to receive info from us, please reply with DELETE in the subject title and make sure you include your email address.