



# Odyssey Computing Hub

## Newsletter

Teach

Computing

November Issue

### How do you teach computing with limited access to computers?

As many schools are currently having to send year groups home to self-isolate, the search for suitable remote learning resources and strategies continues. [This article](#) from Teach Computing provides some practical ideas for teaching computing and may be helpful in identifying strategies and resources.

## Primary

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### Spring Term Remote CPD

We are now scheduling courses for the spring and summer terms. If you are looking for CPD for yourself or a member of your staff, please look out for our course brochure which is emailed to schools on a bi-weekly basis. If you would like this to be emailed directly to your inbox please contact us and we will make sure this is arranged.

### Online courses (self-paced)

There are a number of [online courses](#) that are freely available to join on Teach Computing. Covering both practical and pedagogical topics, these can be accessed at times to suit you.

By completing a remote course and online course you are already on your way to gaining the nationally recognised [Teach Computing](#) qualification which will support you to demonstrate your commitment to developing your own practice and to computing as a school subject.

### CAS INSPIRE

[CAS Inspire](#) is a series of resources consisting of live webinars with expert panellists discussing topical computing education matters in which the audience can get involved. Also featured are videos teaching Computing concepts, podcasts and careers inspiration webinars.

Don't miss out on December's webinars:

Tuesday 1st December - Computing and History – creating animations to bring the past to life

Tuesday 8th December - Computing and Geography – exploring the world on a digital journey

### Barefoot Computing for the Early Years

The Barefoot Computing website has many free resources and activities to use in your classroom to develop children's computational thinking skills. Activities are collaborative and cross-curricular so are easily slotted into your teaching. If you have not already discovered them, there are some excellent [resources for Early Years](#) including a 'Guide to Early Years Computational Thinking' and activities which link with PSHE, English, Science, D&T and Maths.

### Bebras

If you missed the Bebras Challenge, but would like to develop your class' computational thinking skills using Bebras resources, you can do so by downloading their brilliant set of '[Junior School Bebras Cards](#)' as a pdf. The [2019 challenges](#) can be also be accessed online without a log in.

# Secondary

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## CSA PROGRAMME

A recently published report has found that the first cohort of teachers to complete the Computer Science Accelerator programme describe it as having a positive impact in the classroom. Over half the teachers surveyed reported that they have already seen an increase in the number of students studying computer science in their schools.

Did you know you can do as much training as you like as part of this programme, that it is free to trainee, supply and returning computer science teachers and that generous bursaries of up to £1800 are available? There are also different learning pathways depending on your level of confidence.

Find out more here:

[Advanced GCSE computer science](#)

[New to GCSE computer science](#)

[New to algorithms & programming](#)

[Computing non-specialist](#)

[New to computer systems](#)

## Cheltenham Secondary CAS Community of Practice

The launch of the new Cheltenham Secondary Community of Practice is fast approaching. The first meeting will be online on Wednesday 2nd December at 4.30pm. We have already confirmed that Elaine Brown will be able to join us to share exciting news about what is happening in the world of 'Unlock Cyber'.

## Isaac Computer Science

A recent survey of teachers found that teachers registered on the Isaac Computer Science learning platform save an average of three hours a week by using the free online resources.

If you haven't been able to sign up for our Isaac Computer Science CPD this time round, don't worry, there is more in the pipeline for the spring term. The courses are extremely popular and are quickly booked up so keep a close eye out for December and January newsletters where we will be providing you with advance notice of the next round of training.

As a reminder of the sessions we are running this term:

### Data Structures

26th Nov Data Structures: PART 1 Queues, Linked Lists and Stacks (9am to 12pm)

19th Nov Data Structures: **Student Booster Part 1** (5pm – 6:30pm)

20th Nov Data Structures: **Student Booster Part 2** (5pm – 6:30pm)

### Boolean Logic

2nd Dec Boolean Logic: PART 1 Logic gates and circuits (5-8pm)

3rd Dec Boolean Logic: PART 2 Simplification and extended activities (5-8pm)

9th Dec Boolean Logic: **Student Booster Part 1** (5pm – 6:30pm)

10th Dec Boolean Logic: **Student Booster Part 2** (5pm – 6:30pm)

## CyberFirst Schools E-mentoring

If you are a Gloucestershire school who is already registered as a CyberFirst school, you are eligible to sign up to the [e-mentoring programme](#). This initiative provides students with the opportunity to learn from experienced professionals. E-mentoring is also available to teachers on request. If you are looking for opportunities for your students to learn more about what it is like to work in the cyber security and digital industry, CyberFirst have links with a range of [inspirational role models](#). If you would like to have a talk from one of the role models you can get in touch with [i100@cyberhub.uk](mailto:i100@cyberhub.uk) to arrange this.

For those schools in the South West, CyberFirst will be launched in October 2021. More information to follow.

## Unlock Cyber Virtual Taster Week

Monday 7<sup>th</sup> – Friday 11<sup>th</sup> December

### Register to receive regional employer-led activities

It's a time when we all need to come together and [Unlock Cyber](#) is delighted to announce that some of the regions' leading employers are pulling out all the stops to create some fresh new topical cyber challenge activities for the Unlock Cyber Taster week, which is taking place during the 7 – 11 December.

Topics covered include:

- COVID-19 phishing – what happens next?
- Social engineering – social media scams. Tik Tok like you've never seen before
- What is Ethical AI - Why is it important?
- Red team testing – real-world cyber-attack simulation
- Investigative research – crime scene evidence gathering
- We've even got an online experiment!

We will also provide details for any preparation teachers may wish to do beforehand. NOTE: Most content will be available for download so that you can watch at a time to suit.

**Register now to receive the programme.**

If you would like to receive details for all the activities we are producing, please send an email to [elaine3.brown@uwe.ac.uk](mailto:elaine3.brown@uwe.ac.uk)

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## CAS Community Meetings for November and December

Date	Community of Practice	Topic and Booking Link
Tuesday 24 <sup>th</sup> November	Cheltenham Primary	<a href="#">Scratch across the curriculum and Hedgehog Republic</a>
Tuesday 24 <sup>th</sup> November	Swindon Secondary	<a href="#">Isaac CS. Teaching in a Covid World. Good Practice in Computing Lessons</a>
Wednesday 2 <sup>nd</sup> December	Cheltenham Secondary	<a href="#">Unlock Cyber, SME and CS Champion</a>

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## Teach Computing News and Updates

From the Teach Computing website you can [access news](#) relating to all things computing education in a variety of formats. News articles, blog posts, podcasts and Pedagogy Quick Reads are all featured and provide information on a range of topics that would be of interest to subject leaders, teachers and students.

All courses, delivered by hubs across the country, can also be accessed from [here](#).

### Odyssey Computing Hub

Thank you for reading our newsletter. We are keen to provide you with a newsletter which is a useful source of information. Please get in touch with any suggestions for content and any feedback on how we can improve. We would also love to hear about what you are doing. Stay safe and do keep in touch. All the best  
Cara, Sarah and Barry

### Contact us

#### Email:

For general enquiries: [cara@adfecto.org.uk](mailto:cara@adfecto.org.uk)

For enquiries regarding primary computing: [staylor@odysseyts.org](mailto:staylor@odysseyts.org)

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