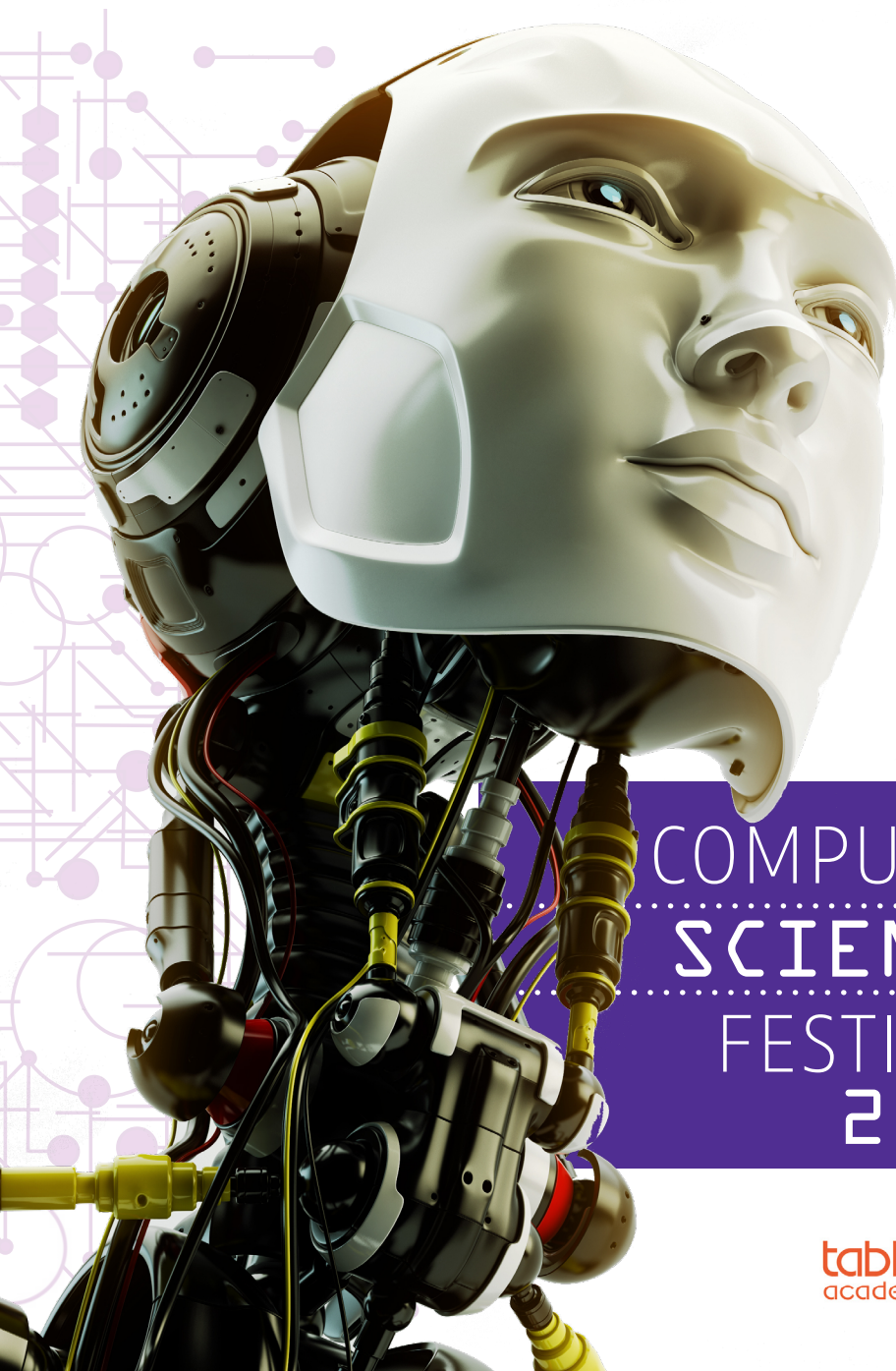




Business Direct



# COMPUTER SCIENCE FESTIVAL 2018



# Trust us to help you embed technology that'll **empower your students**

Enhance computational thinking in your school

BT is one of the world's leading communications companies. It's also the oldest – our heritage dates back more than 150 years. We're a brand you can trust.

In Britain alone, we work with over 1.2million business and Public Sector customers from small start-ups to large organisations such as the Ministry of Defence and Royal Mail.

We're proud of what we do because our business is built around our customers. We're here to help organisations like yours transform and grow.

## Did you know we sell IT too?

That's where Business Direct comes in. We're the IT hardware and software reselling arm of BT and we're one of the biggest in the UK. We're passionate about the education sector because **we've been working closely with academic organisations for over 30 years**, using our IT experience to help enhance learning.

Learn more - [bt.com/businessdirect/education](http://bt.com/businessdirect/education)

## 92% of our customers would actively recommend us...

We pride ourselves on our accreditations, knowledge and expertise; our logistical excellence; and our focus on a "right 1st time" approach. But don't just take our word for it! Our education hub has testimonials from all types of learning environments:

*"They're a customer orientated business. With first class service, they're my only stop for all IT products."*

**Chris Lusty, Network Manager,  
Rhymney Comprehensive School**

*"I collaborate with an IT Specialist that is fully focused on education solutions. They provide the insight and knowledge to present the best products for our requirements"*

**George Trudgill, ICT Technician,  
Hartismere School**



We're committed to building a culture of tech literacy for the UK, starting with the next generation

### We're approaching this by:

- Making tech relevant to the real world
- Enabling more effective learning
- Applying tech to improve school life
- Helping schools access the right tech and support
- Reaching 5m primary school children by 2020

**We run and sponsor a number of programmes to help us achieve our goals, visit our site to find out more.**

Learn more - [bt.com/businessdirect/edu/techlit](http://bt.com/businessdirect/edu/techlit)

## Create a community of coders in your school

Over the next 10 years it's estimated that there'll be 1.4 million jobs in computer science, but only around 400,000 graduates qualified to do them.<sup>1</sup> We've taken an in-depth look at how you can future-proof your pupils and the technology that will support you.

Explore the coding section of our website. Take a look at the options available to expand your student's understanding. You can even delve a little deeper by visiting our blog and getting tips on the easiest and most impactful ways to get hands on with coding.

Learn more - [bt.com/businessdirect/edu/coding](http://bt.com/businessdirect/edu/coding)

1. Source: International Business Times (March 2017), <http://www.ibtimes.co.uk/coding-classroom-what-coding-why-it-so-important-1463157>



# Get support at every stage of your coding journey

## With Apple's Everyone Can Code curriculum

We're an Apple Solution Expert for Education (ASE). It's recognition from Apple of our proven expertise providing IT solutions to academic organisations.

Apple believe coding is an essential skill that everyone should have the opportunity to learn. This marries perfectly with our passion for Tech Literacy. Like us, they want to enable teachers to confidently teach coding. Apple have put a lot of thought into teaching you and your students to learn Swift.

Swift code is the incredible programming language created by Apple. They created it to be easy to use for anyone and everyone. But it's not just for beginners, it's incredibly powerful too – some of the world's most popular apps are created in Swift.

## Bring coding into your school

For first-time coders, they've created Swift Playgrounds. Using gamification, it makes getting started fun and easy.

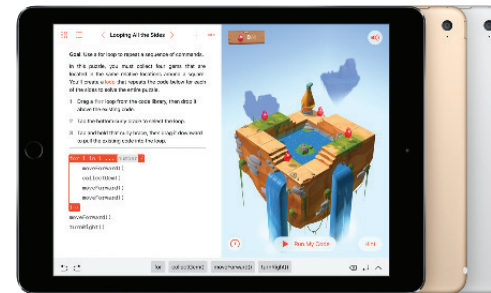


Beyond Learn  
to Code



## Swift Playgrounds

Swift Playgrounds is a revolutionary free new app for iPad that makes learning Swift code interactive and fun for your students. With the built-in 'Learn to Code' lessons, your students can use real Swift code, and the multi-touch capabilities of their iPad, to guide a character through a 3D world. They'll solve puzzles and take on a series of challenges, learning to create more complex code as they advance through the game.



For you as an educator, Apple also have free 'Learn to Code' teacher guides available. Through them, you'll find ideas for lessons and group activities. They provide an entire guide to the way to structure your lessons and the learning objectives you'll cover.

For more confident users, why not adopt coding in a cross-curricular way? This could be using Playgrounds like Drawing Sounds to combine music with coding, or you can import more Playgrounds. Many of our other partners and 3rd party technology providers have created Playgrounds to make learning code even more experiential. You can use Parrot drones, Little bits, Sphero robots and even Lego to outline the real world application of Swift.

If you're ready to advance further still, the 'Intro to App Development with Swift' teacher guide will help. You can learn the basics of app development and experiment in Xcode. This is the software used to make apps on your Mac.

Speak to our team for advice

0870 429 3020

or visit

[bt.com/businessdirect/edu/apple](http://bt.com/businessdirect/edu/apple)

# Enter a world of creation




## The new pi-top has arrived



**pi-top** is a modular laptop that gives you the tools to complete amazing DIY projects and bring your inventions to life. It's the perfect tool to help your students learn to code, create awesome devices, and take their knowledge to the next level. Combine coding and components building with one easy to use device.

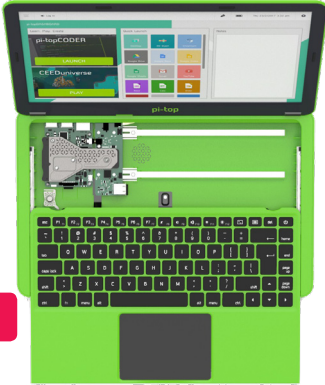
The slide out keyboard can hide or reveal the built in modular rail. This is the workspace for you to build your creations, using **pi-top** accessories and electronic components.

**pi-tops** are powered by the OCR endorsed **pi-topOS**: Polaris. Included pre-installed their all inclusive software suite is the shining star of **pi-top**. The intuitive interface delivers everything you'd expect from a modern operating system and more. Gain access to dozens of apps and 100's of hours of fun and engaging learning. Plus **pi-topOS** comes with a full software suite; including Google Suite, the Chrome web-browser and a fully Microsoft Office-compatible productivity suite. As if that wasn't enough, there's also 3D printing software, Scratch coding and more!

-   
8hr battery life
-   
14" 1080p screen
-   
Sliding modular rail

New  
**pi-top with Raspberry Pi**  
Guide price  
**£247**  
Ex VAT

[Learn more](#)



[Learn more - bt.com/businessdirect/edu/pitop](https://bt.com/businessdirect/edu/pitop)

## The all new pi-top comes with an inventor's kit

### Happy inventing

**pi-top** teaches you to make your own creations on your journey as an inventor. The inventor's kit will help you get started, from creating a buzz game, to a synth, to a robot that interacts with its environment. The inventor's kit can do it all.





# Create a “build your own PC” project in your learning environment

Open Academy, Norwich won our 2017 Tech Factor competition. Their submission wowed our judges, not only because of its altruistic nature, but also because their commitment to tech literacy mirrors our own.

Watch their winning entry - [bt.com/businessdirect/edu/TechFactorWinners](http://bt.com/businessdirect/edu/TechFactorWinners)



Their entry idea was **Project Refurb**. Open Academy are planning to invest their £10,000 prize in new PCs and then refurb old ones to distribute in their local community. Their students will learn basic computer maintenance and some fundamental computer software and network skills.

Project Refurb is a fantastic opportunity for Open Academy's young people to learn valuable computing skills. And it provides a real-world context to the computing curriculum. Learning to refurbish PCs will be as valuable a future-proofing skill to students as learning to code. They'll learn to persist with problem-solving, collaborate and develop a maker mindset through this build your own style project.

Watch their winning entry - [bt.com/businessdirect/edu/techfactor17](http://bt.com/businessdirect/edu/techfactor17)

## Help improve your pupils' concentration while computing

Plantronics headsets are made for comfort, with durable leatherette ear cushions and a lightweight design. They can easily be worn for long periods of time. This, alongside the sophisticated active noise cancellation technology, makes this Plantronics headset ideal for supporting students with their concentration when doing complicated coding challenges or computer builds.



Plantronics blackwire C325.1-M stereo headset

Guide price

**£50**

Ex VAT

[Learn more](#)

plantronics®

## Ready to begin your own project refurb?

It can be tricky to know which components are compatible and will actually work together to make an effective PC. That's why we've put together these components as a basic starter kit. Begin your build your own journey today.

Asus H81M-PLUS S1150 Intel H81 DDR3 mATX



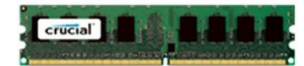
Guide price

**£41**

Ex VAT

[Learn more](#)

Crucial 4GB DDR3 1600MHz PC3-12800 DIMM 240-pin CL9



Guide price

**£26**

Ex VAT

[Learn more](#)

Intel Pentium dual core G4600 3.60GHz S1151 kaby lake CPU



Guide price

**£63**

Ex VAT

[Learn more](#)

Asus GeForce GT 730 700MHz PCI-Express 2.0 HDMI



Guide price

**£52**

Ex VAT

[Learn more](#)

Crucial 250GB MX500 2.5" 7mm SATA 6Gb/s SSD



Guide price

**£63**

Ex VAT

[Learn more](#)

Antec NSK3100 micro ATX case no PSU USB 3.0 1 x fan matte black



Guide price

**£30**

Ex VAT

[Learn more](#)

Speak to our team for advice

0870 429 3020

or visit

[bt.com/businessdirect/edu/shop](http://bt.com/businessdirect/edu/shop)

# Take building your own to the next level

Make virtual reality a cost-effective reality

There's endless opportunities to use VR in education and the benefits are undeniable. Many learning environments are apprehensive about implementing VR as it can be complicated and costly to set-up. But it's not as scary as it seems! Build your own VR-ready PC,<sup>1</sup> it's the perfect way to future-proof your academic organisation's IT strategy.

Several VR headsets can be connected to a desktop PC to give a fully immersive VR experience. However, you need a PC that's powerful enough to run it.

## Build your own VR-ready PC

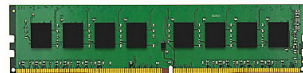
**Asus PRIME X299-DELUXE** Intel X299 S2066 DDR4 M.2 U.2 USB3.1 ATX



Guide price  
**£308**  
Ex VAT

[Learn more](#)

**Kingston 16GB (2x8GB) DDR4 2400MHz CL17 DIMM** memory



Guide price  
**£134**  
Ex VAT

[Learn more](#)

**Asus GeForce GTX 1080 TURBO 8GB GDDR5X PCIe3.0** graphics card



Guide price  
**£466**  
Ex VAT

[Learn more](#)

**Intel Core i7-7820X 2.40GHz Skylake X S2066 11MB** cache box



Guide price  
**£440**  
Ex VAT

[Learn more](#)

**Kingston 480GB KC1000 NVMe M.2 2280 PCIe** SSD



Guide price  
**£179**  
Ex VAT

[Learn more](#)

**Corsair Carbide Clear 600C Inverse Windowed ATX Full Tower** Case



Guide price  
**£109**  
Ex VAT

[Learn more](#)

## Not ready to build your own? We can help

**Exclusive to BT,** Zoostorm are creating built to order, affordable VR-ready PCs.



**Zoostorm Voyager**

Guide price  
**£739**  
Ex VAT

[Learn more](#)



## Accessorise your build in style

After your students have built their PC, what better way to show them the real world capabilities of their skills than to add it to your school inventory? All you need is a monitor and a quality keyboard and mouse.

The Sculpt Ergonomic Desktop is designed to be comfortable and help users be productive, even with long term use. The split keyboard layout keeps wrists and forearms in a relaxed position, and provides support. By providing a relaxed, comfortable computing experience, it enables you to work without stress, strain or discomfort.

**Microsoft sculpt ergonomic desktop**

Guide price  
**£63**  
Ex VAT



1. To run VR on a desktop PC the required system specs includes a recent Intel Core i5 or Core i7 CPU, at least an Nvidia GeForce GTX 970 (preferably a 1060 or above) or AMD R9 290 graphics card and at least 3 USB 3.0 ports



Speak to our team  
about VR headsets  
**0870 429 3020**

or visit  
[bt.com/businessdirect/edu/shop](http://bt.com/businessdirect/edu/shop)

# Inspire your students with cross-curricular learning opportunities

## Using Minecraft: Education Edition

### It's easier than ever to get started with Minecraft in the classroom

Minecraft: Education Edition will:

- Engage students in experiential learning
- Cultivate their empathy and design thinking
- Help them learn to persist with problem-solving
- Enable students to work through the creative process
- Help them to embrace collaboration
- Provide a way to develop their digital storytelling abilities
- Get them excited about writing code (with Code Builder for Minecraft:Education Edition)



To get up and running, you need a Windows 10 device and an Office 365 Education licence.

**Talk to your Education IT Specialist and one of our licensing specialists about bringing Minecraft: Education Edition to your classroom today.**

**Learn more - [bt.com/businessdirect/edu/minecraft](https://bt.com/businessdirect/edu/minecraft)**

Things you need to know: All prices are indicative guide prices only and are valid until 30/04/18, after this date prices may fluctuate without notice. Please see [www.bt.com/businessdirect](http://www.bt.com/businessdirect) for the latest prices. If you do not use the advertised URL or search codes, you may find prices are more expensive than those advertised. All offers are while stocks last unless otherwise indicated. All prices exclude carriage. All prices are exclusive of VAT and are for businesses only. A full copy of our conditions of sale are available on request or can be downloaded from [www.bt.com/businessdirect/conditions](http://www.bt.com/businessdirect/conditions). Calls may be monitored to ensure levels of service and for training purposes. Calls cost 8p per minute from a BT landline. Charges from other networks and mobiles may vary. Errors and omissions excepted (E&OE). Nothing in this publication forms part of any contract. Business Direct, Alpha & Beta House, Enterprise Park, Horwich, Bolton, BL6 6PE. BT plc, registered in England number 01800000. Registered Office: 81 Newgate Street, London, EC1A 7AJ.