



# Welcome



Welcome to Learning Matters Summer 2018. Hopefully you will have noticed we have a new look! We listened to your feedback and hope you like what we've done. Please let us know what you think.

I would love to hear your views on this edition, so please email me at:

[kathy.olsson@e2bn.org](mailto:kathy.olsson@e2bn.org)

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## Are you getting enough professional development?

In the current economic climate you probably consider yourself very fortunate when you manage to attend a course or event. That's why we try to offer training and events that are essential to every school, and because we understand the cost of staff cover we keep prices as low as possible, with many courses being free of charge for our members.

## Dates for your diary:

**9th May**

**Computing is fun (free to E2BN members)**

E2BN Training Room, Hinxworth

**11th July**

**Online safety for Early Years (free to E2BN members)**

E2BN Training Room, Hinxworth

**3rd October**

**Introduction to coding (free to E2BN members)**

E2BN Training Room, Hinxworth

**7th November**

**Computing is Fun (free to E2BN members)**

E2BN Training Room, Hinxworth

**15th November**

**Online Safety Conference 2018**

Deafblind UK Conference Centre  
Peterborough

# "Good ICT is a necessity, not a luxury"

As we have renewed the E2BN IT Procurement Framework contract with Think IT, we thought we should ask Neil Watkins, Think IT Director, why he thinks ICT is so important for schools?

## Why is ICT important for schools?

Very simply, good ICT is a necessity for a school, not a luxury. You can't run an organisation the size of a school smoothly, effectively or efficiently without it. One of the biggest challenges facing schools though is ICT skills. How can a school be an expert in Broadband connectivity, network infrastructure, cyber-security, equipment, Cloud storage, productivity tools, online safety and everything else required to keep staff and learners productive and safe? I would argue that one person, or indeed one company, can't do it all. That's why we bring together the right expertise for each individual school, all under one simple to administer contract. Our aim is to make ICT easy for schools.

## Why would an organisation choose to use Think IT?

The main benefit is that we save you time and money. You don't have to get three quotes or go out to tender – just tell us what you want and we'll get it for you. Buying through the framework means you're fully compliant with DfE guidance and UK procurement law. Because we work with thousands of schools across the country, we can achieve excellent value for money.

We can also help schools identify what they need, especially if they want to transform IT across the whole estate. Our Think IT Readiness Assessment starts with a 'Visioning Workshop' to identify where the school is now and where they want to be. Every single aspect of technology within the school is considered as a whole - teaching, learning, classroom management, business support, connectivity, communication and of course safety and security. The Readiness Assessment informs the IT Strategy. If required we will project manage the entire transformation.

## What's next for you?

As I've worked with so many education organisations I'm often asked to share my experience. I'm speaking at the Academies Show in London on the 25th April; my presentation is entitled "7 ways to mess up your schools' IT...REALLY BADLY". Everyone has at least one story about a school who got it or 'IT' spectacularly wrong. So if any of your readers have a story they'd be happy to share, anonymised of course, please contact me.

[neil.watkins@think-it.org.uk](mailto:neil.watkins@think-it.org.uk)



**Neil Watkins, ThinkIT**

Director has a passion for education. He has spent the last 14 years delivering large, complex and often challenging change programmes.

**What are people saying?**

*"Since using the services of Think IT and their partners, we have seen improvements in staff productivity and collaboration, and an increased use of innovative technology to support teaching & learning."*

**David French**, Curriculum Manager at Beeches Primary school.

*"The framework provides access to the full spectrum of educational IT suppliers without the need for mini competitions so schools can buy direct without having to get 3 quotes or go out to tender, saving both time and money."*

**Kirstie Phillips**, ICT Traded Services Manager at Nottinghamshire County





## Feeling baffled by all the jargon surrounding Internet filtering requirements?

Regardless of which Internet filtering product you use, it must be fully compliant with the Department for Education statutory guidelines 'Keeping Children Safe in Education'. The terminology can be confusing so here's our non-technical jargon buster.

### Search Filtering

Any inappropriate searches will be blocked regardless of which search engine is used: Google, Bing, Yahoo etc.

### Real-time Updates

Any changes are done in real time so, for example, if you block a site, it will be inaccessible immediately. Unblocked sites can be accessed straight away. Request a change or make a change and it's done!

### Dynamic Filtering

The filtering carries out real time checking of all content, regardless of whether it is on an allowed list of websites. This is because the content on websites changes frequently and of course could contain something inappropriate that wasn't there when it was checked by a teacher.

### Flexible Filtering Profiles

Teachers will need access to some things that pupils won't, so multiple level filtering profiles for different users such as year groups, subject groups and teachers. Time scheduling of alternate profiles allows for specific projects and activities.

### Authenticated Access

You will be able to identify individuals by the username they have to log in to the school IT systems. Therefore you can identify anyone carrying out inappropriate searches.

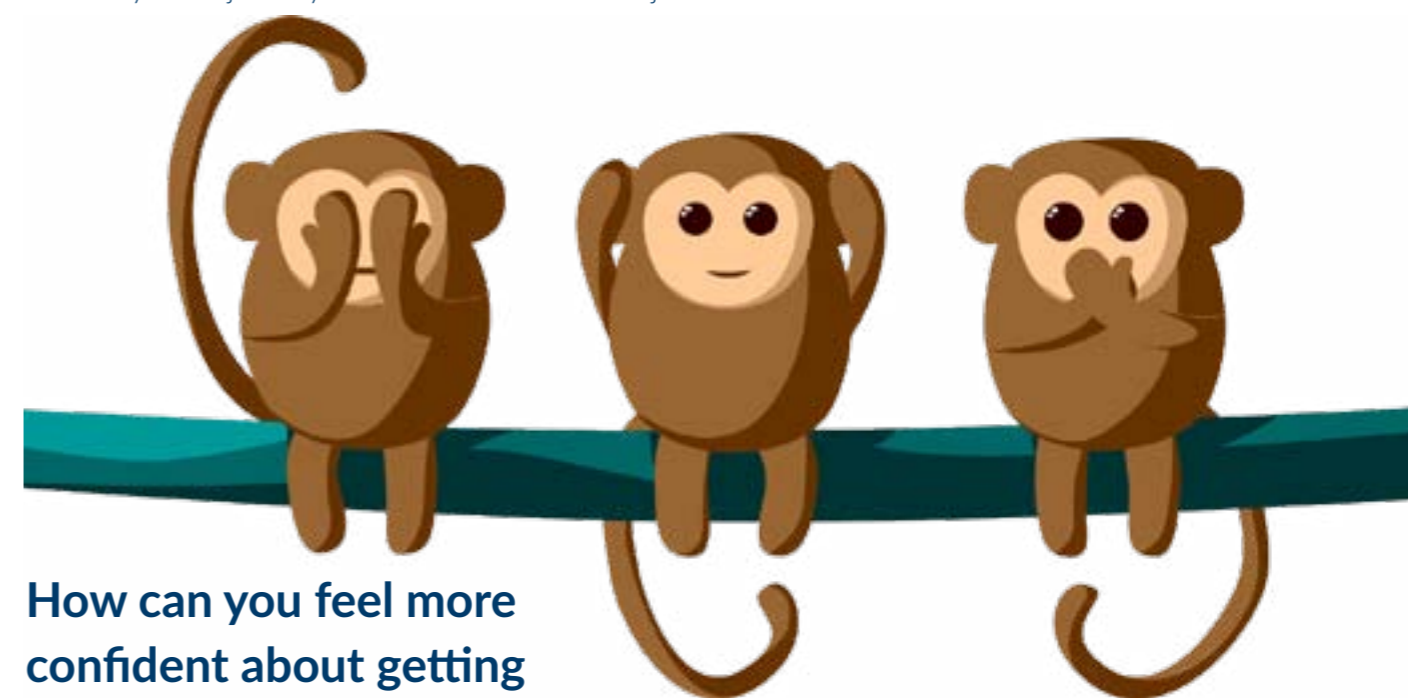
### File Extension Blocking

A file extension helps you to identify what kind of file it is, for example 'house.jpg' would likely be a picture of a house. Some files with .EXE, .MSI, .HTA etc are likely to be programs which could be malicious. File Extension Blocking finds and blocks certain file extensions, known malware and phishing sites.

# GDPR Ignorance is no defence

By now, all staff and not just the senior team, are fully aware of GDPR (General Data Protection Regulation) and its potential impact. There's been a certain amount of scare-mongering going on, from talk of vast fines for minor breaches, to schools being unable to keep the contact details for parents. Some of this rhetoric may well be coming from 'over enthusiastic' companies eager to sell training, products and services.

Should a serious data breach occur at your school and the ICO investigates, if you haven't been taking GDPR seriously, you could be in trouble. However, if you have your Data Protection Officer in place, have policies and procedures, have done risk assessments and taken steps to mitigate any risks, you will be in a position to identify what went wrong and put the necessary steps in place to reduce any future risk. Safety and security will always be a journey with the final destination just around the corner!



## How can you feel more confident about getting GDPR right?

It's a good start if you can say 'yes' to the following ten statements.

- 1 Staff and parents have been informed
- 2 Data Protection Officer appointed
- 3 Data audit carried out
- 4 Review of whether data held is valid
- 5 Review of privacy notices
- 6 Review of data collection procedures
- 7 Review of data processing procedures
- 8 Risk assessment of data security
- 9 Policies and procedures plan
- 10 Robust policies and procedures in place

## Need more help?

E2BN member schools can access unlimited advice and guidance from us, just give us a call or email. We always provide honest, straightforward answers and if we don't know the answer, we will know someone who does!

We also deliver training courses; visit the E2BN website to find the latest information and dates.



# How confident are you that your online safety is effective, robust and current?

Staying up-to-date with the requirements of online safety across the school can be quite a challenge. All too often reactive measures are taken in response to an incident. There can be a certain amount of 'shutting the stable door after the horse has bolted' going on. Something we would highly recommend in order to help your school review, assess and develop your policy and practice is the '360 Degree Safe Online Safety Self Review Tool'. Developed by our colleagues at South West Grid for Learning with funding from the Safer Internet Centre, this free-to-use resource can ensure that you have an effective, robust and up-to-date online safety strategy.



## Online Safety Self Review Tool

Progress through 28 aspects of online safety, improve your practice, record progress and produce reports



## Safeguarding Team

Track and monitor progress across your chain of schools, identify areas of strength and development, and drive change



## Evidence Based

Clear templates with detailed statements to choose from provide an easy way to assess and evidence where you are



## Accreditation

When you are able to show good practice you can apply for the nationally recognised Online Safety Mark

**P**rotecting your children, young people, staff and reputation is a constant challenge. Keeping on top of new regulations, technologies, online threats and trends, policies, procedures and evidence is no mean feat! The 360 degree safe self review tool is free to use and will help you develop and review your online safety policies and practice. It provides a straight forward process for identifying strengths and weaknesses. It's a great way to re-engage whole school involvement and commitment.

**I**deally you will work through the review in manageable chunks with your safeguarding team. Getting input from across the organisation is essential and of course shares the load. To make this as easy as possible, this self review tool can be completed online or the templates and statements can be downloaded as pdf documents. You can work through the tool in any order that suits you. It is designed to help you to review your school's current practice over four main elements, based on the PIES (Policy, Infrastructure, Education and Standards) model.

**E**ach element includes a number of strands, which in turn include a number of aspects. For example, the element could be Policy & Leadership, the strand could be Responsibilities and the aspect Governors. You will choose the statement and level which best reflects where you are, e.g. Level 3 "Governors understand their online safety responsibilities and accountabilities. There is evidence of online safety knowledge on the Governing Body. They are involved in the development of the online safety policy and approve it. Governors receive online safety reports from senior leaders."

**S**hould you want to demonstrate to stakeholders your commitment towards online safety, you can apply for certificates and awards. Once registered, you will be able to download your Commitment to Online Safety Certificate. To receive your Online Safety Certificate of Progress, you will need to have completed at least two of the four elements. Finally, you can apply for your Online Safety Mark. An Assessor will check the completed 360 degree safe self review, your school is then visited by an Assessor for a half day visit after which you will be informed if you have been successful.



*"360 degree safe engages the school community, provides an excellent way for schools to move forward, is free, comprehensive, easy to use and has clearly been developed with users in mind. It provides advice and resources that save time."*

**BETT Award Winner Judge - Leadership & Management**

If you are interested in either support to complete the 360 Degree Safe Self Review Tool or would like to apply for the 360 Degree Safe Award, Kathy Olsson is a training and certificated 360 Degree Safe Assessor with many years of experience.

Please get in touch for more information:

[kathy@e2bn.org](mailto:kathy@e2bn.org)

For more information about 360 Degree Safe visit the website:

[www.360safe.org.uk](http://www.360safe.org.uk)



## CROSSING THE LINE

### Crossing the Line: Your free PSHE toolkit

Gone are the days when online safety or E-Safety was a separate subject often delivered by an external expert. Now online safety can be delivered as part of the PSHE or Computing curriculum. However, it can still be a challenge for many teachers, so Childnet have come to the rescue with a free toolkit of excellent resources, lesson plans and guidance.

The toolkit is primarily aimed at Key Stage 3, however feedback from teachers has indicated that much of the content is suitable for a mature upper Key Stage 2 class.

The toolkit includes four films and accompanying lesson plans which explore the idea of 'crossing the line'. Young people like to push boundaries, and at times they might take a joke too far or engage in risky behaviour online. From behind a screen, they can't always predict the consequences of their actions. Through discussion and activities, this toolkit challenges young people not only to reflect on their own behaviour online and discover what 'crosses the line' for them, but also to know who and how to report when aspects of their online lives go wrong.

The toolkit will help generate discussion amongst your students about their online experience. Using the short films as a springboard, the toolkit covers relevant topics such as cyberbullying, sexting, peer pressure and self-esteem.

For more information or to download the toolkit, simply visit the website:

[www.childnet.com/resources/pshetoolkit/about-this-toolkit](http://www.childnet.com/resources/pshetoolkit/about-this-toolkit)

Teacher's guidance

Cyberbullying lesson plan

Sexting lesson plan

Peer pressure lesson plan

Self-esteem lesson plan



# Computer Science really is child's play

Here are our top seven websites which will turn Computer Science and coding into fun for your pupils and less stress for you!

**1** If you want to get children active, CS Unplugged is a collection of free teaching materials that teaches Computing through lots of running around!

Their cool website has lesson plans, teaching videos, curriculum integration activities and lots of fun programming exercises.

[www.csunplugged.org](http://www.csunplugged.org)

**2** TTS has a fantastic selection of devices and educational code-able toys.

Check out **Clever Cats** which has lovely gender neutral remote controlled toys. **Bluebot** can be programmed directly like the wonderful Beebot or programmed at a computer. **Cubelets** is a ground-breaking robot construction system designed for budding innovators ages four and older.

[www.tts-group.co.uk](http://www.tts-group.co.uk)

**3** Barefoot offer loads of fun activities that teach Computer Science without a computer.

We love the great teacher support materials, free resources and free workshops.

[www.barefootcas.org](http://www.barefootcas.org)

If you're new to coding, why not come along to our popular 'Computing is Fun' course?

The course will help you become familiar with and understand the Computing Curriculum Programme of Study.

You can have a go at practical activities which you can then replicate in your own classroom.

You will also have the opportunity to share experiences with other teachers in a similar position.

Even better, if your school is an E2BN member, the course is free!

Drop us a line and we can discuss what will work best for you:

[kathy@e2bn.org](mailto:kathy@e2bn.org)

**4** Sign up with Computing at School and enjoy free support and lesson ideas from other teachers.

CAS is a huge network of teachers helping each other with all aspects and levels of experience in Computer Science.

[www.computingatschool.org.uk](http://www.computingatschool.org.uk)

**5** Computing is Fun! This lively, hands-on course is free to E2BN members.

This one day course is aimed at anyone who is a little anxious about teaching Computer Science. You will leave the course feeling enthused and confident.

[www.e2bn.org](http://www.e2bn.org)

**6** The BBC micro:bit is designed specifically for education and comes with masses of ideas and support.

It will encourage children to get actively involved in writing software for computers and building new things, rather than being consumers of media.

See pages 10 & 11 for more information.

**7** Hour of Code is well worth exploring. Absolutely no experience is needed for any age to start doing the one hour tutorials.

<https://uk.code.org/learn>



# Getting started with the BBC micro:bit

In 2016 every child in Year 7 or equivalent across the UK was given a free BBC micro:bit with the aim of encouraging a whole generation of computer programmers. Much like the original BBC computer back in the early 1980s, the BBC micro:bit has spawned a wave of similar products, new software, new Apps, inventor packs and incredibly creative uses of Lego!

Think of a micro:bit as an incredibly basic computer. It is generally capable of controlling one simple action at a time, for example switching a light on or off. Many things around you in everyday life will have similar control devices in them. To enable this tiny 'computer' to control another device, such as a light switch, it has to be programmed with set of instructions or 'commands' so that it knows what to do and when to do it.

The program can be written completely separately to the micro:bit, on a classroom computer for example, using one of a huge number of free software options such as MakeCode, Scratch or Python. Once the program has been written, it is transferred to the micro:bit via a USB cable. The micro:bit has an 'on' switch to set the program running and an 'off' switch to stop the program.

Once the programme has been transferred, the micro:bit can then be disconnected i.e. the USB cable removed. The micro:bit will run the programme just as other embedded devices do – washing machines, heating controllers, car engine management systems etc.

An academic study commissioned to look at the impact of providing over 800,000 micro:bits free to Year 7 pupils indicates very positive outcomes:

- 90% of students said the micro:bit showed them that anyone can code
- 86% of students said the micro:bit made Computer Science more interesting
- 70% more girls said they would choose Computing as a school subject after using the micro:bit
- 85% of teachers agree it has made ICT/Computer Science more enjoyable for their students

Half of teachers who have used the micro:bit say they now feel more confident as a teacher, particularly those who say they're not very confident in teaching Computing.



Although tiny, the micro:bit also comes equipped with some very useful additions:

- 25 individually programmable LEDs (lights)
- two programmable buttons e.g. one for start, one for stop
- three sensors - light, temperature and motion, all of which can be used to trigger an action
- wireless communication, via radio and bluetooth

## What can you do with a micro:bit?

There are various things that the micro:bit can be programmed to do without any additional accessories or devices, for example, the 25 LED lights can be programmed to display letters, numbers, simple symbols etc. With the right program the lights can turn into a stop watch using the on and off switch to start and stop the numbers.

In order to create fun and exciting projects using the micro:bit, you will need some extra bits and pieces such as crocodile clip cables, buzzers, motors, speakers and batteries. You may find many of these accessories if you raid your science cupboards! Although there are some amazing devices out there such as robots, you really don't need to spend a fortune. There are thousands of examples of fun things to do just using every day materials such as paper, card, plastic or objects such as bananas.

You can get a much better idea of what it can do by watching some of the fantastic videos available on the Internet. Just search for micro:bit ideas.

## Want to know more?

You can find a huge amount of teaching resources, ideas, events and communities of enthusiasts out there on the Internet. You could also consider collaborating with other schools to share expertise, ideas and events. Many websites also have forums, community pages and events so they're a good place to start. You could also attend a free course here with us at E2BN. Introduction to coding is a one day course which includes use of the BBC micro:bit. Visit the E2BN website for details.

## Useful links:

[www.microbit.org](http://www.microbit.org)

<http://www.codekingdoms.com/>

[www.codeclubprojects.org/en-GB/microbit/](http://www.codeclubprojects.org/en-GB/microbit/)

[www.hackster.io/microbit/projects](http://www.hackster.io/microbit/projects)





trusted broadband services



## Why should you choose E2BN Broadband?

- We are experts in education and really understand your needs.
- We can supply Broadband anywhere in the UK.
- Unlike commercial Broadband suppliers we have no shareholders which means we are not trying to find ways to get more money out of you!
- All our packages come with E2BN Protex web filtering.
- We constantly monitor your connection, consistently meeting 99% or better up-time.
- You will have unlimited data usage.
- UK based support – access to the technicians who know your product well.
- You get E2BN membership and access to a wealth of E-Safety training and other benefits.



Our Broadband services also include Protex web filtering. We've developed this specifically for education. We continue to update and improve it and are in the process of releasing version 5.

## Why not request a quote?

We will provide our best price based on your needs and the options available to you. We will always give you honest and trustworthy advice.

For more information or to request a quote please contact:

[sales@e2bn.org](mailto:sales@e2bn.org)

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