Welcome to the Computing/ICT newsletter for the autumn term 2014.

- **E-safety and Ofsted**
- **Babcock Computing Assessment Grids**
- **Secondary Subject Leaders**
- **GCSE Consultation**
- **Code Camp 2014**
- **FUZE for Key Stage 3 & to extend Year 5 & 6**
- **No Strings Attached! Mobile Learning Conference**
- **3D Printing**
- **Courses to support the Curriculum**

Well it is finally here… the new curriculum that is! Amid the raft of Ofsted changes and education reforms starting on the 1st September the computing curriculum has slipped into place. It is not known how much this new curriculum has been planned for in many schools. Do look at how Babcock LDP can support your school in delivering the Computing curriculum.

Ofsted now has a renewed focus to ensure “that the curriculum is broad and balanced” which might encourage greater consideration of the use of technology across the curriculum.

The highlight of our summer was our first Code Camp which was a tremendous success. So much so that we have already started to plan Code Camp 2015 which will be on July 23rd and 24th 2015. (See the article below)

In this newsletter you will find the usual mix of computing updates, CPD and useful information. We have added more courses and events to help in preparations for teaching Computing, you will also find information about our plans for e-safety, assessment and new initiatives being undertaken by the Computing/ICT Team to support IT in your schools.

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### E-Safety and Ofsted - update for September 14

There are now just three Ofsted guidance documents

- The framework for school inspection;
- School inspection handbook and
- Inspecting safeguarding in maintained schools and academies.

The section five briefing “Inspecting e-safety” was removed from the Ofsted website in May, but elements of good e-safety practice have now been included in the school inspection handbook and the separate safeguarding briefing. Ofsted inspectors will receive regular and up-to-date e-safety training to enable them to identify good and inadequate e-safety practice as part of inspections.

Schools, and Ofsted Inspectors, should be familiar with the DfE’s statutory guidance for schools and colleges, “Keeping Children Safe in Education’, 2014 (KCSIE) and its implications for schools. KCSIE specifically highlights that governing bodies and proprietors should consider how children may be taught about safeguarding, including online, through teaching and learning opportunities, as part of providing a broad and balanced curriculum.


Updates will be given at the next Subject Leader’s meetings 2 & 3rd December (Pri) and 12th November (Sec SLICM).
How the Computing/ICT team can support Devon schools in e-safety

The Computing/ICT team are able to provide schools with funded and non-funded support. The small amount of Safeguarding funded ‘umbrella’ support for all maintained schools consists of the following areas:

- Phone and email support on any immediate or urgent e-safety, policy or online issue
- Free after school ‘e-safety dropins’ for schools on October 14th and January 14th See below
- Revised scheme of work for e-safety across all year groups
- Maintenance of the e-safety website www.surreyesafety.co.uk

The e-safety dropin on the 14th October takes place from 4.15 (refreshments) till 5.45pm. It is designed for schools to have some specific time with a consultant to talk through their policy or any issues that the school may have. Please bring any school e-safety documentation/policies that you may have and a wifi enabled laptop to access resources. The session will start with a welcome and a brief update and then the rest of the time will be spent in smaller groups. Although it is possible to just turn up please contact either ingrid.lucas@babcockinternational.com or Rachel.Whelan@babcockinternational.com to book a place so that we have enough consultants to support the dropin. The venue is Babcock LDP Milford house.

The Computing/ICT team have developed an e-safety package of support (or SLA) for bespoke work in individual schools which is on a school funded basis. This can be taken as a Silver, Gold or Platinum package. This allows us to effectively support specific issues in schools that need greater focus. Please contact ingrid.lucas@babcockinternational.com for further information.

E-safety Scheme of Work
This popular resource has been revised to reflect the Computing Programme of Study. It can be downloaded for the Surrey e-safety website, http://www.surreyesafety.co.uk

Babcock Assessment Grids for Computing available at Subject Leaders

The Babcock Computing/ICT Team are developing assessment materials for the new Computing curriculum. The assessment grids will be available at the Primary and Secondary Subject Leader Meetings in November and December 14. New “Understanding Assessment and Progression in Computing” courses are scheduled for the Spring term. Further materials and guidance will be presented along with the experience of some trial schools. At these courses attendees will receive versions of the grids and guidance materials that they can edit and adapt to fit the assessment methods in use in their own school.

We know that some teachers are finding the assessment materials currently available difficult to incorporate into their school planning. Our assessment grids relate to the National Curriculum key stage statements. They encourage a ‘depth of learning’ approach to Computing, recognising progress in learning, rather than an accumulation of skills. It will focus on how well a young person has understood and can use a particular concept or idea. Our aim is that they should contain sufficient information to ensure a breadth of study but be straightforward to use and be easily understood by teachers and pupils.

We are looking to work with one or two Devon school to trial the grids and give feedback. If you are interested in working with us and help develop the support materials during the next six weeks please contact Pat Risley (pat.risley@babcockinternational.com ) or Steve Clarke (steven.clarke@babcockinternational.com ) by 25th Sept.

Secondary Subject Leaders Meeting

The next Devon subject leaders of Computing and ICT meeting (course code: 4S-ICT-1408157) is on November 12th at Devon Flybe. This is open to all line managers, heads of department and teachers of computing.

Following changes to the inspection framework, there will be an Ofsted and e-safety update to look at the impact of these changes on the teaching and leadership of Computing. We will share materials we are developing for assessing computing (see article above for more details and an opportunity to participate in trials). Other sessions will include a practical workshop on teaching coding and binary through multimedia. We also want to celebrate successes you have had delivering Computing and invite you to present activities, lessons or schemes of work which have gone well. We will contact you after half term to request volunteers. we also have representatives from Fuze (http://www.fuze.co.uk/) running a programming workshop
GCSE Consultation

We encourage you to have your say on the new Computer Science GCSEs which are planned for 2016: https://www.gov.uk/government/consultations/gcse-and-a-level-reform.

The consultation closes on September 19th

Code Camp 2014

Code Camp was an action-packed two days of hands-on coding and activities attended by teachers from Devon, Plymouth and Surrey. There were workshops for programmable robots, Small Basic, Python, Kodu and Scratch, including a fantastic workshop by Tim Eaglestone showing how to use Scratch to model real world problems, which ticked many of the boxes for the KS2 and KS3 Computing curriculum.

“I have attended a few courses to help me with the transition from ICT to Computing teacher and this was by far the best.” Code Camp delegate

FUZE sponsored the event and ran exciting workshops which highlighted how electronics and computing can combine very effectively to teach computer science. They also donated a FUZE for the prize draw which was won by Krishny from Ash Manor School. For more details about FUZE see the article below

Code Camp Feedback

“Welcoming, helpful and knowledgeable staff. Excellent resources and links.” Plymouth school

“A big thank you to the course leaders for being so approachable and friendly - they have made the transition from ICT to computing seem much more doable!! This course has saved me so much planning time and has given me infinite ideas on how to best deliver the new computing curriculum - just what a teacher needs!”

“It was the wisest use of two days of my holiday, it has saved me days if not weeks of planning time, it has saved me weeks of sleepless nights thinking about the new term and how on earth am I going to deliver a curriculum I don't understand and for the sheer volume of resources, knowledge and understanding I came away armed with it was utterly invaluable.”

“This was far and away the best CPD event I've ever been on, it was brilliantly put together by a very experienced team with great knowledge and a wonderful sense of humour.”

Buy FUZE at a discount for use with Key Stage 3 and to extend Years 5 & 6

As demonstrated at the last primary subject leaders network meeting (June14), we have agreed a discount with Fuze for devices which are ordered through Babcock. The price list and order form is at the end of this newsletter. We are also developing training courses to support schools who buy the device. Schools that buy the Fuze from us will receive a 10% discount on one of these training courses. Fuze will be shown at the Secondary Subject leaders meeting on the 12th November.

FUZE is a programmable computer and electronics workstation. It is an ideal platform for learning logic and computer programming and provides a safe environment to experiment with simple electronics. It allows pupils / students to write programs to control physical things such as traffic lights or a robot arm. It comes with FUZE BASIC project cards and lesson plans. To find out more about Fuze visit their website: http://www.fuze.co.uk/

Please contact steven.clarke@babcockinternational.com if you have any questions about FUZE.
No Strings Attached! Mobile Learning Conference
Thursday 26th November 2014, Riviera International Center, Torquay

Key Reasons to Attend:
- Strengthen your strategic vision for learning through the use of mobile digital technologies
- Explore how to raise attainment whilst inspiring learners
- Learn how mobile technology can improve digital literacy and e-safety skills
- Gain an awareness of the infrastructure requirements associated with mobile learning

Conference price is £150+VAT. Follow this link to book a place.

‘No Strings Attached!’ is a platform agnostic, realistic look at mobile learning in our schools. It is a must for any school that has started or intends to start the journey towards mobile learning. Focusing on pupil learning and raising attainment we will explore the relevant issues with internationally renowned speakers, a wide range of seminars and all the usual fun, games and prizes! Delegates will have a choice from a range of relevant and inspiring seminars including teaching and learning with tablets, teaching and learning with tablets, mobile learning and e-safety, Bring Your Own Device (BYOD) and many more!

Follow this link for the website http://bit.ly/1wAX12Q and follow the hashtag #NASmobile

Keynote Speakers:
Steve Molyneux – A British Educational Technologist @profsmolyneux
Ian Yorston – Director of Digital strategy at Radley College.
Tim Rylands & Sarah Nield, (award winning) Learning Adventurers, So Into IT

3D Printing Project

We are delighted that the 3D printing case studies are now underway at Sandcross and Glebelands schools. The purpose of the research is to identify how the 3D printers can be implemented in schemes of work across the curriculum at Primary and Secondary level. The cost of the printers and training has been subsidised by It Is 3D. We will be publishing the results of the case study during the course of this academic year.

We can support you to move to the new Computing curriculum

The Babcock Computing team are experienced in supporting schools in the new computing curriculum. Whether your school has embraced the curriculum with open arms or tentatively trying out some new aspect of computing we are there to help. Our courses are aimed at providing support for teachers, subject leaders and department heads responsible for planning and teaching Computing (see below). We regularly put on new courses as a result of your feedback and are always open to ideas and suggestion. If you would prefer, we can also help you on a 1:1 basis in your school or adapt training courses for delivery to the staff in your school, confederation or academy chain. Contact Dave.Robinson@babcockinternational.com to discuss the individual needs of your school or academy.

To find out more or to book onto any of these courses, follow the link from the course code. If you are teaching in a special school and are unsure whether a course would help you and your students, please phone us to discuss it. 01372 834476

An Introduction to the New Computing Curriculum for Computing/ICT Subject Leaders (Primary)
Tuesday 14th October 2014
4S-ICT-1408278

New to Computing Subject Leadership (Primary)
Wednesday 15 October 2014
4S-ICT-1408180

The Computing Curriculum has transformed the previously known ICT curriculum, providing a strong focus on the area of computer science. This one-day course supports ICT / Computing Subject Leaders in ensuring that their school can meet the needs of the computing curriculum and they can support their colleagues in delivering it.

“Brilliant – a motivating course” “One of the most practically useful courses I have been on”

Have you been given the Computing/ICT subject leader role? Not sure where to start or would like an update to all the recent aspects of the role? This course is for you and will provide opportunities to explore the different elements of computing/ICT subject leader responsibilities. The course will cover planning for personal development, auditing and planning computing/ICT development, contributing to school development planning and clarifying expectations, identifying deadlines and prioritising tasks.

September 2014
Computing for EYFS & KS1 Teachers  
Wednesday 15th October 2014  
4S-ICT-1408272

Computing for Year 3 & Year 4 Teachers  
Wednesday 19th November 2014  
4S-ICT-1408273

Computing for Year 5 & 6 Teachers  
Tuesday 18 November 2014  
4S-ICT-1408276

Bit worried about teaching the Computing curriculum to your primary class? Would you like to feel more confident in teaching computing software relevant to your year group?

Designed for staff who want to ‘have a go’ but need more confidence these one day courses support class teachers in R, Yr1 & Yr2, Yr3 & 4 and Yr5 & 6 in delivering the new computing curriculum to their pupils. They will identify the essential areas to cover, looking at progression, continuity, assessment, activities, and software and hardware requirements.

“This has been very useful. It was great to have a chance to play with all the resources”

Secondary Leaders of Computing/ICT Meeting (SLICM)  
Wednesday 12 November 2014  
4S-ICT-1408157

The day is an opportunity to share developments, discuss national initiatives and their impact on schools, and review a variety of Computing/ICT resources. The day will be a mixture of presentations, discussion, demonstration and practical experiences in hands-on sessions, as well as being an opportunity to network with colleagues.

An Easy Introduction to Computing with Small Basic (Pri and Sec)  
Wednesday 19th November 2014  
4S-ICT-1408483

This course will introduce you to the basics of programming through Microsoft's Small Basic (a free programming language). The simplicity of Small Basic makes it an ideal introduction to text based programming languages for KS2 and KS3 students and an effective bridge between visual programming environments such as Scratch and advanced text based languages such as Python or Visual Basic. In the afternoon we will look at more advanced features and how Small Basic can be used in GCSE projects.

“Great introduction as to how to get small basic into the classroom”

The following courses are running in different areas. Please email Ingrid Lucas if you would like one put on in your area. Ingrid.lucas@babcockinternational.com

Getting up to Scratch (KS2 & KS3)

This hands-on course will guide you through programming with Scratch (a free visual programming language). Starting with simple Scratch projects, the course will progress to the creation of interactive games and the control of Lego Wedo models. Through this range of increasingly complex Scratch projects, forming the basis of a scheme of work, participants will gain an understanding of progression in computing.

Programming Minecraft Raspberry Pi Edition with Python (Secondary & upper Primary)

Minecraft is free to use on the Raspberry Pi and offers a powerful incentive to encourage children to learn to code. Minecraft Pi edition allows the user to write commands and scripts using Python code to build their environment automatically, which saves time when creating a Minecraft world. This course is aimed at beginners and is suitable for KS3 but will also be of interest to teachers looking to extend KS2 pupils. It does not assume any prior knowledge of Minecraft, Python or the Raspberry Pi.

Understanding Assessment and Progression in Computing

These half day courses will look at using the B4S Computing assessment grids and supporting material to monitor and record pupil / student progress through the Computing curriculum. There will be presentations about learning taxonomies, recognising progression in computing and the experience of schools that have trialled the grids.

Contact the Team

Dave Robinson  
Team Leader  
dave.robinson@babcockinternational.com

Tim Barette  
Primary Consultant  
tim.barette@babcockinternational.com

Steven Clarke  
Secondary Consultant  
steve.clarke@babcockinternational.com

Pat Risley  
Primary Consultant  
pat.risley@babcockinternational.com
## ICT/Computing Courses Autumn Term 2014

<table>
<thead>
<tr>
<th>COURSE TITLE</th>
<th>DATE</th>
<th>VENUE</th>
<th>COURSE CODE</th>
<th>TIME</th>
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</thead>
<tbody>
<tr>
<td>New to ICT/Computing Subject Leader (Primary)</td>
<td>15.10.2014</td>
<td>Flybe Centre, Exeter</td>
<td>4S-ICT-1408180</td>
<td>9:30 - 15:45</td>
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<td>Computing for EYFS &amp; KS1 Teachers</td>
<td>15.10.2014</td>
<td>Flybe Centre, Exeter</td>
<td>4S-ICT-1408272</td>
<td>9:30-15:30</td>
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<tr>
<td>Computing for Year 5 &amp; 6 Teachers</td>
<td>18.11.2014</td>
<td>Flybe Centre, Exeter</td>
<td>4S-ICT-1408276</td>
<td>9:30-15:30</td>
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<tr>
<td>Computing for Year 3 &amp; 4 teachers</td>
<td>19.11.2014</td>
<td>Flybe Centre, Exeter</td>
<td>4S-ICT-1408273</td>
<td>9:30-15:30</td>
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<tr>
<td>An Easy Introduction to Computing with Small Basic (For KS 2,3&amp;4)</td>
<td>19.11.2014</td>
<td>Exeter (Exact venue to be confirmed)</td>
<td>4S-ICT-1408483</td>
<td>9:30-15:45</td>
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<tr>
<td>Computing/ICT Mobile Learning Conference – 'No Strings Attached!'</td>
<td>26.11.2014</td>
<td>Riviera International Conference Centre (Torquay)</td>
<td>Conf00-1408150</td>
<td>9.30 - 16.00</td>
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<tr>
<td>Primary ICT Subject Leader Network Meeting (2 of 3)</td>
<td>2.12.2014</td>
<td>Tiverton Hotel</td>
<td>4S-ICT-1408153</td>
<td>13:30 - 16:15</td>
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<td>Primary ICT Subject Leader Network Meeting (2 of 3)</td>
<td>3.12.2014</td>
<td>St Cuthbert’s Conference Centre, Buckfast Abbey</td>
<td>4S-ICT-1408155</td>
<td>13:30 - 16:15</td>
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Bookings via: [www.babcock-education.co.uk/ldp/cpd](http://www.babcock-education.co.uk/ldp/cpd)

For further information on all Computing/ICT courses please phone 01372 834476

September 2014
<table>
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<tr>
<th>Model Description</th>
<th>Model</th>
<th>RRP (per unit)</th>
<th>Babcock Price (per unit)</th>
<th>Quantity</th>
<th>Total</th>
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<tbody>
<tr>
<td><strong>FUZE for Raspberry Pi + printed Project cards</strong></td>
<td>FUZE-T2-A</td>
<td>£149.99</td>
<td>£142.49</td>
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<td>Includes: RPi B, FUZE Case (type II), UK Keyboard, FUZE IO board + analogue, USB</td>
<td>1-5 units</td>
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<td>Hub and power supply, 8GB SD Card – pre-loaded with OS and FUZE BASIC, Solder-les</td>
<td>6-14 units</td>
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<td>Breadboard, Mouse &amp; mat, Electronic component kit, FUZE BASIC Programmer’s</td>
<td>15+ units</td>
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<td>Reference Guide (Hard Copy)</td>
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<td><strong>FUZE for Raspberry Pi + printed Project cards</strong></td>
<td>FUZE-T2-B</td>
<td>£108.99</td>
<td>£103.49</td>
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<tr>
<td>Includes: FUZE Case (type II), UK Keyboard, FUZE IO board + analogue, USB Hub</td>
<td>1-5 units</td>
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<td>and power supply, 8GB SD Card – pre-loaded with OS and FUZE BASIC, Solder-les</td>
<td>6-14 units</td>
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<td>Reference Guide (Hard Copy)</td>
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<td><strong>FUZE the Ultimate Case for Raspberry Pi</strong></td>
<td>FUZE-T2-C</td>
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<td>power supply</td>
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<td>Raspberry Pi NOT included</td>
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<td><strong>8 GB SD Card preloaded with OS &amp; FUZE BASIC</strong></td>
<td>FUZE-ACC-</td>
<td>£8.99</td>
<td>£8.49</td>
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<td>Additional FUZE BASIC and Operating System SD card</td>
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<td><strong>FUZE 1 to 2 SD Card Duplicator</strong></td>
<td>FUZE-ACC-</td>
<td>£115.83</td>
<td>£112.99</td>
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<td>Quickly duplicate SD cards two at a time. Stand-alone unit can be operated with a</td>
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<td>single button press.</td>
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<tr>
<td><strong>HDMI to VGA adaptor / converter</strong></td>
<td>FUZE-ACC-</td>
<td>£9.99</td>
<td>£9.49</td>
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<td>A3</td>
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<tr>
<td>Small and reliable, plugs straight into the the HDMI port, converting this to a standard analogue VGA socket.</td>
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**Prices displayed are exclusive of VAT and delivery**

Delivery for 1 to 5 Fuze units is £14.99. Delivery is free on orders above this.
Minimum order £70

**Payment Terms:** Due on receipt

**Warranty:** 1yr Standard RTB through Fuze

**VAT:** All prices are exclusive of VAT at the prevailing rate

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Your Name
Job Title
Date
Email address
Tel.
School Name
School Address
Postcode
PO Number
Authorised by
Name and Position

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**Total**

Delivery
VAT
Total