

KEY STAGE 1	Computer Science	Digital Literacy	E-Safety
understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions			
create and debug simple programs			
use logical reasoning to predict the behaviour of simple programs			
use technology purposefully to create, organise, store, manipulate and retrieve digital content			
recognise common uses of information technology beyond school			
use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.			

Computer Science Year 1	Example Activities
<p>Objectives: Pupil should understand that both computers and humans can follow instructions Pupils will learn that an algorithm is a precise way of solving a problem Pupils will extend their knowledge of following instructions and playing games to recognise and give examples of algorithms in everyday life Pupils will create, test, refine their own precise and clear algorithms for a specific purpose</p>	<p>Following instructions revisited - Storyboard of instructions for everyday activities e.g. cleaning teeth, making sandwich Following directional instructions – link to PE /Cooking activities Writing instructions others can follow - literacy Human robot games in classroom – human crane code-it website</p> <p>Using a Bee Bot to achieve a specific goal such as; parking in a spot, going to the number 4 on a mat, going to the first letter of your name on a mat, knocking down the skittles, avoiding certain obstacles etc. Use estimation, trial and error, encourage discussion and prediction, plan the programming sequence before executing and begin to record the sequence. (Maths Y1; geometry; position, direction, movement, whole, ½, ¾ turns) Stories - Beebot can get the different fruit from Handa's Surprise, can be the wolf in the Three Little Pigs going to each house in turn, can be dressed up as the Rainbow Fish, Little Red Hen, Going on a bear Hunt, the witch from Hansel & Gretel...any story where a character moves, ie any story! Beebot can be the postman delivering letters to only the even numbered houses on a road. It can deliver letters to house number 1 and then the next child can roll a dice and they have to add that number on to see which house to visit next. Beebot could also be a doctor doing house visits. Barrier game (like battleships) - 2 groups with 2 Beebots, with barrier. 1 group place their beebot in a square on grid and then instruct the other group to move theirs to same place. Play skittles where Beebot has to knock over as many skittles as it can (felt tip pens standing on ends). Beebot slalom. Guess Who game or Beebot detective game where the children have to solve the problem and then send Beebot to the right answer card/picture. Beebot is dressed as a construction vehicle and has to reverse to load/unload into tight spot. Beebot is a plane/train/taxi/boat and has to visit certain destinations on the map. Give Beebot loads to carry, investigate whether it slows Beebot down, can it move the load up a slope? Can be linked to "The Little Engine That Could" story.</p> <p>BBC resources</p> <p>Resources: BeeBots BeeBot mats (or similar/homemade floor mats) iBoard; Cheese Sniffer, Pollen Hunter, Position Them - The Tree, Position Them – The Picnic, Dance Moves, Fly Catcher, Lily Hop Espresso – KS1 videos and activities - search for sequence, maze or time Espresso Coding – Unit 1a, 1b (subscription paid in Camden until October 2015, lesson plans included) 2Code (part of Purple Mash, need subscription) first few “Chimp” activities Busy Things (part of LGfL), age 5-6; Maths; Shape, Space & Measures – maze and directional</p>

activities
 JiT Turtle (free on LGfL)
 2Go (2Simple Infant Video Toolkit)
<http://www.bbc.co.uk/schools/0/computing/28972462>
<http://www.code-it.co.uk/unplugged/humancranepian.pdf>
 SWITCHED ON COMPUTING SCHEME; UNITS 1.1, 1.2 (needs to be purchased)

Digital Literacy Year 1

Example Activities:

Objectives:
 Pupils will be able to recognise different types of digital content and name them (photos, videos, text, audio, images).
 Pupils will learn they can be manipulated and combined to create multimedia outcomes.
 Pupils will be able to save and retrieve their work.

Use appropriate software and devices for different purposes; storytelling, non-fiction writing, posters, postcards etc using a variety of media (Cross curricular links) Build on mouse and keyboard skills such as shift, arrow keys etc whilst creating content. Begin to proof read work. Children given experience of using variety of digital devices including tablets, PCs, laptops, cameras and microphones.

Resources:
 2Simple; 2create a story, 2Publish, Book Creator app
 Sonic Pic app
 Doodle Buddy app
 Story Creator app (alligator apps)
 Espresso book making templates
 Purple Mash (subscription needed)
 SWITCHED ON COMPUTING SCHEME; UNITS 1.3, 1.5, 1.6 (needs to be purchased)

Pupils will be able to name different digital devices.
 Pupils will extend their knowledge of how technology is used in everyday life.

Technology photo walk around the school to see where technology is used
 Homework task could be asking parents or adults if/where they use computers in their work or places they visit such as docs/dentists/supermarkets

<p>E-safety Year 1</p> <p>Objectives:</p> <p>Recognise the need to know the difference between personal and private information.</p> <p>Know what to do if they find something inappropriate online.</p> <p>Use a password to access the school network or other accounts.</p> <p>Know to treat people politely online.</p>	<p>BBC resources</p> <p>Resources:</p> <p>Espresso search for videos on technology http://www.bbc.co.uk/schools/0/computing/28972462 SWITCHED ON COMPUTING SCHEME; UNITS 1.4 (needs to be purchased)</p> <p>Example Activities:</p> <p>Watching the ThinkUKnow movie and following up with plenty of discussion and/or role play using the mask templates provided on CEOP resource site</p> <p>Resources:</p> <p>ThinkUKnow Lee & Kim videos and supporting resources – include plenty of discussion ChildNet resources – DigiDuck http://www.bbc.co.uk/schools/0/computing/28972462</p>
---	--

Computer Science Year 2	Example Activities :
<p>Objectives: Pupils will begin to be more accurate with their algorithms. Pupils will understand the need to be unambiguous and accurate for their instructions to be followed as intended Pupils will persevere with problem solving approaches to debugging (detecting and correcting errors) Pupils will extend their experience of prediction when using robots or coding software</p>	<p>Following instructions revisited – understanding objects respond to commands Following directional instructions – develop understanding of positions, direction, movement and turns (Maths Y2 geometry; use mathematical vocabulary including rotation, anti-clockwise, clockwise) Writing instructions others can follow – literacy/science/cooking Human robot games in classroom – with extended sequence of instructions Whichever software or app is being used, it is the process of computational thinking that is important: Children need to discuss, predict, estimate, try, refine, debug and extend their programming sequences. They should be encouraged to walk out a route or write down a list of commands and set challenges for friends. E.g.; draw a flowchart to create the perfect jam sandwich, make a list of instructions to solve your own A.L.E.X. maze creation before giving to friend, longer sequence of instructions for example making Bee bot visit all the even house numbers with in one procedure. BBC resources</p> <p>Resources: BeeBot BeeBot app A.L.E.X. App http://www.bbc.co.uk/schools/0/computing/28972462 2Code (part of Purple Mash, need subscription) some of the “Chimp” activities Espresso Coding – units 2a, 2b (subscription paid in Camden until October 2015, lesson plans included) Kodable app Espresso – KS1 videos and activities - search for sequence, maze or time 2Go (2Simple Infant Video Toolkit) In teacher settings more advanced programming options SWITCHED ON COMPUTING SCHEME; UNITS 2.1, 2.2 (needs to be purchased)</p>
Digital Literacy Year 2	Example Activities:
<p>Objectives: Pupils will collect, organise and manipulate data to be able to examine the data and find answers Pupils will consolidate and extend knowledge of saving and retrieving work (understand My Documents, class folders, shared folders etc)</p>	<p>Use appropriate software and devices for different purposes; storytelling, non-fiction writing, posters, postcards, graphs etc using a variety of media (Cross curricular links). Consolidate appropriate keyboard and mouse skills to use computer efficiently. Safe and effective searching on the internet for research purposes Children extend experience of using variety of digital devices including tablets, PCs, laptops, cameras and microphones</p> <p>Resources: 2Simple; 2create a story, 2Publish, 2create a superstory, 2Publish+, 2Graph, 2Count Book Creator app Sonic Pic app</p>

Pupils will extend their knowledge of how technology is used in everyday life and across different professions.

E-safety Year 2

Objectives:

Pupils will begin to understand the different sorts of online communication (difference between playing a game online with an unknown person and emailing or texting a friend/relative)

Importance of remembering passwords and keeping them private

Appreciate that pop ups/hyperlinks will take them away from the main site

Respect other peoples work that will be saved within a shared area

Pic Collage app

ArtSet app

Espresso book making templates

Purple Mash (subscription needed)

SWITCHED ON COMPUTING SCHEME; UNITS 2.3, 2.4, 2.6 (needs to be purchased)

Example Activities:

Explore work within a profession; digital artist, navigation tools on ships/planes, how robots are used to help people. Technology walk around local area (smoke alarms, automatic doors, pedestrian crossings, white goods in kitchen etc)

BBC resources

Resources:

Espresso – videos about robots being used in different walks of life

<http://www.bbc.co.uk/schools/0/computing/28972462>

Example Activities:

Continuous reinforcing of key messages of keeping personal information private, not sharing passwords, how to report and block.

BBC resources

Resources:

ThinkUKnow Lee & Kim videos and supporting resources – include plenty of discussion

ChildNet resources – DigiDuck

<http://www.bbc.co.uk/schools/0/computing/28972462>

SWITCHED ON COMPUTING SCHEME; UNITS 2.5 (needs to be purchased)

KEY STAGE 2	Computer Science	Digital Literacy	E Safety
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts			
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output			
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs			
Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web			
Appreciate how [search] results are selected and ranked			
Use search technologies effectively			
Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information			
Understand the opportunities [networks] offer for communication and collaboration			

Be discerning in evaluating digital content

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact



--	--

Digital Literacy Year 3
Objectives:
Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
Understand the opportunities [networks] offer for communication and collaboration

Example Activities:
 Use a variety of software for different purposes to support work across the curriculum, to retell stories, create stories, write informative, non fiction texts in different styles. To use pictures and links where appropriate and to begin to add, or learn to create, animation to work if applicable. Use of recording or filming to support speaking and listening. To collect data, input it into appropriate software and then analyse findings and begin to draw conclusions.
 Children should extend their understanding of how computers can connect people with email, social media, Skype etc...possibility of linking with other schools or via educational websites such as the National Space Centre.
 Begin to look at blogs and see how an author/creator and link to audience and how people are free to then comment – discussion about audience and choosing appropriate comments. See 100wc.net

Resources:
 2Create a Superstory
 2Publish/+
 Book Creator app
 Sonic pic app
 Puppet Pals app
 Morph app
 Stop Motion HD app

E-safety Year 3

Objectives:

*Be discerning in evaluating digital content
Use technology safely, respectfully and responsibly;
recognise acceptable/unacceptable behaviour; identify
a range of ways to report concerns about content and
contact*

Skitch app
Kar2ouche
school blogs
100wc.net
Switched on??

Example Activities:

Revisit Lee and Kim videos to ensure that the children are clear and reminded about keeping personal information private.
Spend time exploring and discussion issues and learning points raised in CyberCafe (CEOP) and SMART films.
Children can make advise poster for KS1 children, or posters to go near computers in class/ICT suite.
BBC resources

Resources:

CyberCafe (CEOP)
Lee & Kim (CEOP)
SMART resources
<http://www.bbc.co.uk/schools/0/computing/28972462>
Switched on??

Computer Science Year 4

Objectives:

Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

Use sequence, selection, and repetition in programs; work with variables and various forms of input and output

Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web

Appreciate how [search] results are selected and ranked

Use search technologies effectively

Example Activities:

Continue to develop children's ability to write instructions of increasing complexity and debug their work to achieve a specific goal. This must be supported by much discussion, peer sharing, questioning and articulation of code to support problem solving. Testing of each others work usually provides effective feedback. By Y4 a confident class can be introduced to Scratch. Begin with the children working out how to make a sprite move and the solve the problems that will naturally be articulated....can he go faster/ slower/ can he look like he is moving (ie change costumes), can they walk the other way, can we change the background, can they speak etc. Children can make 2 characters enter the stage from opposite sides, stop when they meet in the middle and then speak to each other in turn (speech bubbles), this can be topic related or could be a greeting card. Children can explore changing costumes by getting the dancing or jumping characters and making them do a dance or trampoline routine. Plenaries should always include children explaining how and why their code works with appropriate questions from the teacher to extend knowledge....can they jump higher? How do we reduce these 6 repetitive instructions (could we use repeat?)

Begin to use off screen activities to support computational thinking skills – such as play 20 questions...get the children to discuss why some questions are better than others....is it male? Is better than is it Justin Beiber? Begin to develop the idea of being as efficient as possible with code; compare children's code that has the same result but is written in different ways.

Use Lego WeDo to create models that are then computer controlled by the commands the children put together.

BBC resources

Resources:

Move the Turtle/ LOGO

Scratch

Probots

Kodable

[Espresso Coding / 2Code/ Switched on??](#)

Lego WeDo

<http://www.bbc.co.uk/schools/0/computing/28972462>

Example Activities:

Ask children why they think Google is the most used search engine? Is it because it brings best results?

Google ranks findings of a word search based on the importance of page – based on number of pages linked to it

Introduce the idea of bookmarking favourite/most useful sites so children can collect useful topic links.

Demonstrate how to open multiple web pages without leaving the search (by right clicking on a result link and left clicking to open in a new tab).
Show less confident readers how to use IM Translator or iPad SpeakIT to read a passage from the web page, as this might be easier than the child reading the text themselves.
Consolidate skills such as right clicking on a picture to insert into work within their chosen software.
Use the CISCO activities to help explain how the Internet works with games to play and missions to accomplish
BBC resources

Resources:

Internet search engines
Google video on how searching works
Switched on??
Peter Packet CISCO.com
<http://www.bbc.co.uk/schools/0/computing/28972462>

Digital Literacy Year 4

Objectives:

Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
Understand the opportunities [networks] offer for communication and collaboration

Example Activities:

To develop children's competence using a variety of software for different purposes to support work across the curriculum; to retell stories, create stories, adapt stories, write informative, non fiction texts or persuasive texts. Make multimedia presentations using sound, links, pictures and animation to display learning in a range of subjects such as using Stop Motion to explain a scientific theory learned. To develop the pupils picture manipulation skills
To collect data, input it into appropriate software and then analyse findings and begin to draw conclusions. To do more complex searches when interrogating data.
Children should continue to extend their understanding of how computers can connect people with email, social media, Skype etc...possibility of linking with other schools or via educational websites such as the National Space Centre.
Develop a class blog and use class time to look at feedback and new posts, with continued discussion about audience and appropriate, supportive comments.

Resources:

2Create a Superstory
2Publish/+
Book Creator app
Sonic pic app
Puppet Pals app

Morph app
Stop Motion HD app
Skitch app
Kar2ouche
school blogs
J2E blogging
2Investigate
Switched on??

Example Activities:

Make sure that e-safety issues are continuously and appropriately discussed in class, when searching, communicating or blogging etc. Revisit resources and add new content if it is appropriate for the activities the class are involved in ie; beginning to own and use their own mobiles or all playing certain on line games.

BBC resources

Resources:

Switched on??

SMART

CyberCafe

<http://www.bbc.co.uk/schools/0/computing/28972462>

E-safety Year 4

Objectives:

Be discerning in evaluating digital content

Use technology safely, respectfully and responsibly;

recognise acceptable/unacceptable behaviour; identify

a range of ways to report concerns about content and

contact

Computer Science Year 5

Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

Use sequence, selection, and repetition in programs; work with variables and various forms of input and output

Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web

Example Activities:

Revisit the pupils programming skills, consolidating understanding of repeat commands. Introduce the concept of loops, forever loops and forever if loops forever – can be discussed, created as a class or group or drawn out on paper away from the computer.

Loop – repeat 5; wake up, go to school, go home (school week). Repeat 5; wake up, go to school, go home, repeat 2: wake up, play, go to bed (7 day week). Repeat all the above x7 for a half term and continue to build up.

Forever loop – moon orbits earth, Monday to Sunday, heart beats

Forever if loop - fall in mud; clothes need cleaning. Run; heart beats faster

Get the children to make their own examples of each type of loop.

Create games in Scratch – maze game; reacting to colour, other sprites, make character move in 4 directions using arrow keys, add in enemies giggling around, create second level

Create a 2 player game, such as a car racing game where the cars move using the arrow keys and restart if they hit the green surrounding or inside the track. A second player can operate his/her car by programming the a,s,d and w keys.

Recreate some well known board games such as Whack-a-mole with characters appearing and disappearing quickly with the player having to click on them in time.

Etch-a-sketch design.

Pupils can be challenged to discover the bug in a given programme.

Revisit Lego WeDo and then introduce Lego NXT and begin to programme robot to move and then to respond to loud sounds, distance or touching obstacles by using sensors and programming them accordingly.

Continue with off screen activities that support computational thinking – such as the numbered balls hidden under plastic cups, in order of size, though not necessarily all numbers there. Ask child to find 86, ask other children to help/comment on choices and try to encourage the conclusion that the most effective strategy is to go for the middle cup each time; idea of divide and conquer; it is how a computer sorts data and is the most effective. Revisiting 20 questions and see if they can solve the game in as few rounds as possible. Discuss tactics (idea is you can get from 1,000,000 to 1 in 20 questions by using divide and conquer approach).

Bbc resources

Resources:

[Espresso Coding / 2Code/ Switched on??](#)

Scratch

Espresso Coding

Lego NXT

<http://www.bbc.co.uk/schools/0/computing/28972462>

Example Activities:

Use the Peter Packet activities, games and challenges on the CISCO website to increase the understanding of how computers send and receive information. Pupils should begin to understand

Appreciate how [search] results are selected and ranked
Use search technologies effectively

the Internet is host to the World Wide Web, email, file transferring, chat rooms, newsgroups etc. Introduce idea that computers understand each other because they speak the same language, just as people in one country do – TCP/IP (transmission control protocol/Internet protocol) Introduce idea of each device having unique number called Internet Protocol address – show yougetsignal.com to discover IP address and run simple traces Watch videos; <http://thekidshouldseethis.com/post/26674356049>
<http://www.ictvideohelp.co.uk/internet/internetpackages/internetpackages.html>
BBC resources

Resources:

CISCO.com
yougetsignal.com
<http://www.bbc.co.uk/schools/0/computing/28972462>
Switched on??
<http://thekidshouldseethis.com/post/26674356049>
<http://www.ictvideohelp.co.uk/internet/internetpackages/internetpackages.html>

Digital Literacy Year 5

Objectives:

Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
Understand the opportunities [networks] offer for communication and collaboration

Example Activities:

To build on the children's competence and confidence in using software for different purposes to support work across the curriculum; to write character descriptions, create persuasive texts for debate, retell a story from a different character's perspective, write informative and non-fiction texts. Make multimedia presentations using sound, links, pictures and animation to display learning in a range of subjects. To use Green Screen within a range of curriculum areas to encourage clarity of speech, prose and argument. To encourage pupils to present their work and encourage appropriate and constructive peer comments. To collect data, input it into appropriate software and then analyse findings and begin to draw conclusions. To do more complex searches when interrogating data. Begin to use date handling to solve more complex mathematical problems such as price rises, bulk buying in tuck shop, a market stall with income and outgoings, creating formulae to make the football league reorganise teams automatically when a new score is input. Develop a class blog and use class time to look at feedback and new posts, with continued discussion about audience and appropriate, supportive comments.

Resources:

2Create a Superstory
2Publish/+
Book Creator app

Sonic pic app
Puppet Pals app
Morph app
Stop Motion HD app
Skitch app
Kar2ouche
PowerPoint
Excel
2Investigate
Green Screen
J2E blogging
Switched on??

E-safety Year 5

Objectives:

*Be discerning in evaluating digital content
Use technology safely, respectfully and responsibly;
recognise acceptable/unacceptable behaviour; identify
a range of ways to report concerns about content and
contact*

Example Activities:

Understand that some websites are sponsored and are not necessarily the most useful.
Understand that content needs to be crossed checked to verify information. Use spoof websites for a classroom activity and discussion to illustrate this.
Introduce very specific and more accurate searching by using symbols such as – sign;
Southampton – football will remove all references to Southampton FC. Try using * when searching for cities or lakes or mountains.
Continue with e-safety lessons, reacting to where the children are in their online behaviour, ie is it appropriate to start to discuss social media profiles and behaviour? Do parents need to be informed?
Children can create storyboards illustrating an online problem that is solved, showing clearly how the person came to solve it (in a similar way to the way the CEOP films always have a conclusion).
Pupils can provide advise sheets or cartoon strips for others in the school.
BBC resources

Resources:

Jigsaw film (CEOP)
CyberCafe
Comic Life
Comic Strip app
2Publish+
<http://www.bbc.co.uk/schools/0/computing/28972462>

Computer Science Year 6

Objectives:

Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

Use sequence, selection, and repetition in programs; work with variables and various forms of input and output

Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web

Appreciate how [search] results are selected and ranked

Use search technologies effectively

Example Activities:

Extend the children's competence and understanding using Scratch. Their games or presentations can include broadcasts to be a trigger for something else to happen, variables for timers, life counters, speed or score. As throughout their previous computing experience, discussion, testing, commenting, debugging, reading and articulating the code they have written will support the achieving the objectives. Use planning sheets to help their plans develop clearly.

Children can progress onto random items to help them create quizzes, where the computer decides say a random number between 1 and 10 to add to another random number.

Pupils can be challenged to discover the bug in a given programme.

Code Kingdom is a great extension for the confident and able coder. They can play the game first of all and identify what they have to achieve.

They can then learn how to do the coding for themselves as they design their own planet – such as putting in buttons that will make something happen such as a bridge to appear etc. their designs can increase in complexity as their confidence grows.

Lego NXT – revisit what the children learned last year and present more difficult challenges such as following a white line to navigate in to a parking space using the light sensor.

To support the development of computational thinking skills, the children can be challenged to the weighing activity where they have to sort out identical looking objects according to their weight, using balance scales but using the least number of comparisons, it can be filmed, there definitely needs to be a “counter”. Pupils can discuss their findings and see if they can find explanations.

BBC resources

Resources:

Scratch

Code Kingdoms

Lego NXT

<http://www.bbc.co.uk/schools/0/computing/28972462>

[Espresso Coding / 2Code/ Switched on??](#)

Example Activities:

Pupils can explore how to search for a file on the computer. Use the * symbol and examine the way the results are displayed.

Consolidate using symbols in an internet search, such as “ “.

Continue to use the resources on the CISCO website

Encourage children to name their sources when using information from the Internet. A discussion on bias will often be appropriate here.

Revisit yougetsignal.com to consolidate understanding of how computers are identified and how traces can be checked.

Bbc resources

Revist videos <http://thekidshouldseethis.com/post/26674356049>

<http://www.ictvideohelp.co.uk/internet/internetpackages/internetpackages.html>

Resources:

CISCO.com Peter Packet activities

yougetsignal.com

<http://www.bbc.co.uk/schools/0/computing/28972462>

Digital Literacy Year 6

Objectives:

Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information

Understand the opportunities [networks] offer for communication and collaboration

Example Activities:

To continue to use a variety of software for different purposes to support work across the curriculum. Continue to make multimedia presentations using sound, links, pictures and animation to display learning in a range of subjects. Continue to encourage pupils to present their work and encourage appropriate and constructive peer comments. Each child will be encouraged to work at their own level and improve where necessary. The content should be increasingly full and sophisticated with age and experience, such as producing iMovie films exploring a geography, history or science topic.

To collect data, input it into appropriate software and then analyse findings and begin to draw conclusions. To do more complex searches when interrogating data. Begin to use date handling to solve more complex mathematical problems.

Develop a public blog and use class time to look at feedback and new posts, with continued discussion about audience and appropriate, supportive comments, perhaps about transition to secondary school or about their experiences on school journey.

Have a skype conversation with other pupils or someone of interest such as a grandparent who can answer questions on a topic such as WW2.

Resources:

2Create a Superstory

2Publish/+

Book Creator app
Sonic pic app
Puppet Pals app
Morph app
Stop Motion HD app
Skitch app
Kar2ouche
PowerPoint
iMovie
Excel
2Investigate
Green Screen
Skype
J2E blogging
Espresso Coding / 2Code/ Switched on??

E-safety Year 6

Objectives:

*Be discerning in evaluating digital content
Use technology safely, respectfully and responsibly;
recognise acceptable/unacceptable behaviour; identify
a range of ways to report concerns about content and
contact*

Example Activities:

Use the Jigsaw film to revisit and discuss their use of social media and audience, impact and behaviour. Make sure all children know what choices they have if they feel uncomfortable about something they have seen, read or heard online/by phone.
Spend time discussing mobile phone use as Y6 is often the time the children get their first phone. Also need to discuss games, webcam use.
Possibly use circle time or anonymous discussions to tackle issues if appropriate
Y6 children could be encouraged to plan and take part in an e safety assembly for a younger class.
BBC resources

Resources:

Jigsaw (CEOP)
CyberCafe
kidsmart.org.uk
childnet.com
<http://www.bbc.co.uk/schools/0/computing/28972462>

