

Whole School Curriculum Map 2015-16 to Specific ICT and Computing - Focus (NC) with links to IPC Units

2015-16 to 2016-17 (2 Year Rolling Programme) IPC Units Subject: COMPUTING

Year A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1		Summer 2	
Unit name	'I'm Alive'	'Let's celebrate'	'What's it made of?'	'Earth- our home'	'GI	reen Fingers'		
Year 1 & 2 Nat Curric Content	Algorithms Predict, estimate and create a set of instructions to control a floor robot to move between two or more fixed points involving distance and turn.	Hardware & Processing Recreate sounds of a fireworks display and record the sounds on an EasiSpeak or Sound button on Fronter.	Data & Data Representation Use a graphing package and a simple database to collect, organise and classify data, asking and answering questions.	Information Technology Make an electronic class book about e.g different toys.	Create a sequence of instructions to meet one of the challenges. Debug (alter) until correct. resources, based on www.thinkuknow.co email system or Frozend MESSAGES with		<u>iKeepSafe.org</u> CEOP Thinkuknow Hector's World <u>uk/5 7/</u> (lessons 1 – 5) School Iter SMART Rule – Only send and	
Unit name	'Footprints from the Past'	'Active Planet'	'Material World'		'Saving the World'			
Year 3 & 4 National Curric Content	Algorithms Create an animation with changing slides and a sprite that moves. Use speech bubbles to add information Scratch activity cards and tutorials at http://scratch.mit.edu/help/	Information Technology Combine text, graphics and possibly other features to create both printed documents and multimedia presentations e.g. make a poster for a poem with text, images, relevant colours etc.	Data & Data Representation Research information and enter data into a database. Use it to ask and answer straightforward questions and produce bar charts.		Programming & Development Instruct turtle to create pictures using simple shapes Use 2Go or online turtle program such as http://www.mathplayground.com/mathrogramming.html	Communication & Networks Share work and work collaboratively through a shared online space ESAFETY	Hardware & Processing Take a picture through the class windows and edit pictures to show changes. Keep photos as separate pictures and the play together using Photostory or Windows Movie Maker More able could add music and voice over to explain the changes	
Unit name	'Being Human'	Bronze to Bio-plastic' '	Fascinating Forces'		'Space Explorers'	'Extreme Survivors'		
Year 5 & 6 National Curric Content	Communication & Networks Use advanced search functions in Google, e.g. quotations. Understand websites such as Wikipedia are made by users (link to E-Safety) Use strategies to check the reliability of information, e.g. cross checking with books. Use their knowledge of domain names to aid their judgment of the validity of websites. ESAFETY	Information Technology Plan a presentation, combine from a range of sources, organise and refine to suit purpose and audience e.g. create a presentation about a focus location- Create an interactive map by linking spots with hyperlinks to information pages.	Data & Data Representation Design and use a spreadsheet to solve a problem by changing variables. Answer 'what if questions' Create spreadsheet for business plan using formulas	Information Technology Create a game linked to topic e.g. get a pharaoh to the pyramids without be attacked by the mummies. http://csamarktng.vo.msecnd.net/kodu/pdf/koducurriculum keyboard mouse.pdf or type in http://tinyurl.com/q65qt oo (topic link)			Hardware & Processing Create radio programme or sonic postcard by combining sounds e.g. create music to go with a song that they've written and record it being performed using Audacity	



Whole School Curriculum Map

2015-16 to 2016-17 (2 Year Rolling Programme)

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Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
В							
Unit	'Super humans'	'People of the	'All Dressed Up'	'Live and let live'	'Flowers an	d insects'	
name	•	'Past'	•				
	Hardware & Processing	Information	Communication &	Algorithms	Data & Data Representation	Programming & Development	
& 2 Curric	Take pictures of different	Technology	Networks	Predict, estimate and create a set of	Use a graphing package and a	Create a set of online	
	exercises and edit and add	Combine text, images	Share and comment on	instructions to control a floor robot	simple database to collect, organise	instructions to meet a challenge	
``		and possibly other	work online, developing		and classify data, asking and	e.g. a shape or right angle.	
a	will help.	features to create either	understanding about	points involving distance and turn.	answering questions.		
Year 1 National	•	a printable document or	appropriate behaviour and				
Year	Take a series of photographs	a simple multimedia	internet safety				
Na Na	to create an animation or	presentation. Ensure all	Work with another class to				
	slideshow to illustrate a	choices suit the	create a shared text through email/forums.				
11	concept.	purpose.		/T** 11.1/	'Time and Place, Earth and Space'		
Unit	'How Humans	'Chocolate'	'Living Together'	'Turn it Up!'	Time and Place, E	artn and Space	
name	Work'						
_	Algorithms	Hardware &	Communication &	Programming & Development	Data & Data Representation	Information Technology	
e	Create a simple game where	Processing	Networks	Create a world to settle in. What	Collect, find, organise and interpret	Plan, design and create and	
4 National Content	if a conditional statement is	Know and can use a	Use at least two online	resources would be needed e.g.	information using graphing and a	improve their own multimedia	
	met then they start again or	range of input and	communication methods	rivers, mountains, trees. Create the	branching database e.g. Create	presentation showing awareness	
4 0	lose e.g. don't touch the edge of a maze. Ideas can be	output devices e.g. mouse, keyboard,	(eg online discussion, surveys, quizzes, blogs,	world and navigate a sprite around it. Use Kodu guidance on	database to solve sorting problems in Science e.g. sort what material a	of audience. E.g. Create a PhotoStory presentation that	
<u>ي</u> ه	found at	printers.	wikis, shared online folders,	http://csamarktng.vo.	mystery sample is.	addresses Bullying and	
	http://scratch.mit.edu/help/	Act out how information	web quests) through the	msecnd.net/kodu/	mystery sumpte is:	strategies to deal with it.	
	or	s sent to and from these	Learning Platform in topic	pdf/kodu curriculum keyboard m		strategies to acut man ta	
Year	http://www.simonhaughton.c	devices.	work	ouse.pdf or type in			
>	o.uk/scratch-programming/		ESAFETY	http://tinyurl.com/q65qtoo			
Unit	'Existing,	'Out of Africa'	"Fairground"		The Great , the Bold and	the Brave'- (Greeks)	
name	Endangered, Extinct'						
	Data & Data	Communication &	Hardware & Processing	Programming & Development	Information Technology	Algorithms	
	Representation Solve a	Networks	Know the difference	Create a simple quiz app on any	Plan a presentation including appropri	ate Create a simple game	
& 6 Curric	problem by planning and	Regularly update a blog	between hardware and	curriculum area. Instructions for	software, combine from a range of sou	rces, such as noughts and	
خ 5 ہے ا	carrying out data collection,	during a term. Add	application software, and	creating a simple app	organise and refine to suit purpose an		
Year 5 8 National C	by organising and analysing	photos and links to	their roles within a	http://www.appinventor.org/apps/h	audience	game using Navigate	
	data using a database, and	related sites or other	computer system.	ellopurr/hellopurr.pdf		Python/Small Basics	
	by drawing conclusions and	blogs. ESAFETY				programming - Guide	
	presenting findings to a specific audience	ESAFEIY				for using Small Basics http://tinyurl.com/pdd7	
_	specific addience						
						<u>8vb</u>	

Please note that E-safety is continuously taught throughout the year but Communication and Networks units provide particularly strong links to this. Safer Internet Day in February is also identified by the school to raise e-safety issues.

Hardware and Processing and Communication and Networks skills will also overlap all ICT and Computing units.