Computing Program of Study Curriculum Map

	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
Year R	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.					
	Once upon a rhyme	Rumble in my tummy	When I grow up	Animal detectives	Pirates	Teddies
	Using technology **E-Safety rules** Knows how to operate simple equipment, e.g. turns on CD player and uses remote control.a computer.	**Programming and control** **Beebots 1 - routes around masking tape, 2 go /2 go** Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images. .	**Using technology/creating and publishing – (Purple mash paint projects choose a design and add your name to it/mash cams)** Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.	**Creating and publishing** **Modelling and simulation** Knows that information can be retrieved from computers Completes a simple program on a computer.	**Digital Media** – IPAD (purple mash -mash cams **Digital Media-**Using a digital camera Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones **Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.**	**Using the internet** Uses ICT hardware to interact with age-appropriate computer software. **Beebots 2-** exploring and making their own routes **Logging on and logging off –**zebra/penguin on network **Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.**
Year 1	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.					
	Green fingers	Time Machine	Blast Off	Mr Benn	Castles	
	Using the internet recognise common uses of information technology beyond school	**Digital Media** – IPAD **Using technology** use technology purposefully to create, organise, store, manipulate and retrieve digital content	**Programming and control** **Beebots** 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 **Creating and publishing** **Using technology** use technology purposefully to create, organise, store, manipulate and retrieve digital content	**Using data** **Multimedia and simulation** recognise common uses of information technology beyond school	**Programming and control-Coding** 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	
Year 2	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.					
	The Great Bordon bake Off	Remembrance	Dragonology	Google Earth	80 days around the world	
	Using technology **Creating and publishing** Use technology purposefully to create, organise, store, manipulate and retrieve digital content **Digital media=digital camera – leaflet about Bordon using photos from walk**	**Creating and publishing** **Using technology** use technology purposefully to create, organise, store, manipulate and retrieve digital content **Programming and control-**	**Creating and publishing** **Using technology** **Modelling and simulation** use technology purposefully to create, organise, store, manipulate and retrieve digital content	**Using the internet** recognise common uses of information technology beyond school	**Programming and control-Scratch junior app** understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and	**Using data** **Digital media=digital camera –** **Power point famous person comparison** use technology purposefully to create, organise, store, manipulate and retrieve digital content

| use technology purposefully to create, organise, store, manipulate and retrieve digital content | **coding instruct a march**

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 | | | unambiguous instructions

create and debug simple programs

use logical reasoning to predict the behaviour of simple programs | |

Computing Vocabulary Curriculum Map
2014-15

	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
Year R	**Once upon a rhyme**	**Rumble in my tummy**	**When I grow up**	**Animal detectives**	**Pirates**	**Teddies**
	Computer **Software** **Store** **Playback** **Edit** **Save** **Control** **Open** **close** **Technology** **Ipad**	**Beebot** **Programme** **Instructions** **Robots** **Forwards** **Backwards** **turn** **Rechargeable** **Battery** **Clear memory** **Off on**	**text** **save** **pictures** **open and close** **logon** **username** **control** **mouse** **clicking** **double clicking** **ipad**	**choices** **screen** **character.**	**digital camera** **uploaded** **computer.** **photo** **ipad** **video**	**information** **sources** **Internet** **favourites bar**
Year 1	**Green fingers**	**Time machine**	**Blast off**	**Mr Benn**	**Castles**	
	Computer **Software** **Store** **Playback** **Edit** **Save** **Control** **Open** **close** **Technology** **Ipad**	**Beebot** **Programme** **sequence** **Instructions** **Icons** **Devices** **Robots** **Forwards Backwards** **turn** **Rechargeable Battery** **Clear memory/Off on**	**Word process** **Text** **Graphics** **Presentation** **Video** **Photos** **Organise** **Edit** **Folder**	**Internet** **Information** **Images** **Sounds** **Text** **Web page** **Web address** **Menu** **Search** **Search engines**	**Internet** **Information** **Images** **Sounds** **Text** **Web page** **Web address** **Menu** **Search** **Search engines**	**Internet** **Information** **Images** **Sounds** **Text** **Web page** **Web address** **Menu** **Search** **Search engines**
Year 2	**Sweet factory**	**Remembrance**	**Dragonology**	**Google Earth**	**80 days around the world**	

Digital camera Computer Software Store Playback Edit Save Control Open close Technology Ipad	Word process Text Graphics Presentation Video Photos Organise Edit Folder	Word process Text Graphics Presentation Video Photos Organise Folder Edit Graphs Data base Create Simulation Real information fantasy	Internet Information Images Sounds Text Web page Web address Menu Search Search engines	Programme sequence Instructions Icons Devices Robots Forwards Backwards turn Rechargeable Battery Clear memory Off on	Digital camera Computer Software Store Playback Edit Save Control Open close

Computing Skills Curriculum Map

2014-15

	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
Year R	Once upon a rhyme	Rumble in my tummy	When I grow up	Animal detectives	Pirates	Teddies
	I can open and close a program I can control a mouse by clicking and double clicking to select what I want to do I can control an iPad using my finger	I can control a beebot using arrow keys enter key (ipad app and actual) I can begin to understand that devices respond to commands	I can begin to write my name in different programs I can save my work with support I can add begin to add text to my pictures I can open and close a program I can begin to logon to a computer using my username I can control a mouse by clicking and double clicking to se I can control an ipad using my finger	I can make choices and that make things happen on the screen to a character.	I can take a picture using a digital camera I know that photos can be uploaded to a computer. I can take a photo using an ipad I can take a video using an ipad	I can understand that information comes from different sources e.g. books, web sites, TV etc. I can begin to talk about how I use the Internet I can use the internet to help me learn using the favourites bar
Year 1	**Green fingers**	**Time machine**	**Blast off**	**Mr Benn**	**Castles**	

	Digital Media - IPAD	Programming and control	Creating and publishing	Using data	Using the internet	Using the internet
	I can use an ipad to take pictures I can explore sound and music in ICT using keyboards, and onscreen music software on the ipad I can record sound and store it ready to play back using an ipad **Using technology** I can use I can open and close a program on an ipad and on a computer. I can make a program larger and smaller on an ipad and on a pc I can use a mouse or touchpad to control a computer I can logon to a computer	I can control the movement of a Beebot using single commands I can control a screen robot using single commands I can understand and follow clear instructions to perform a task. I can begin to programme a sequence of instructions or actions, and that these can be inputted using icons of by text.	I can begin to word process my work, and edit what it looks like using icons and buttons I know. I can combine text and graphics to make my work more interesting. I can use technology to create work using a painting programme I can use technology to create work using a variety of tools **Using technology** I know that there are many types of technology I can use a mouse or touchpad to control a computer I can save and find my digital work in a folder I can open work I have saved	I can use technology to create graphs **Modelling and simulation** I can talk about programs which real or fantasy situations I can explore a simulation and talk about whether its about real information or fantasy.	I can talk about the different forms of information (text, images, sound) I can talk about how the information can be used to answer specific questions I can begin to develop key questions and find information to answer them with support	I can talk about the different forms of information (text, images, sound) I can talk about how the information can be used to answer specific questions I can begin to develop key questions and find information to answer them with support
Year 2	**Sweet factory**	Remembrance	**Dragonology**	Google Earth	80 days around the world	
	Using technology I can talk about and use and a range of different technology. I can save and retrieve digital content using a range of technology I can talk about how information is stored in a computer and an ipad and on the internet I can search and explore a variety of electronic information as part of a given topic I can use different buttons/icons can explain what they do e.g. record, pause,	**Creating and publishing** I can create a presentation using power point (or ipad equivalent) I can organise my ideas using text video and photos I can edit my work to make it better	**Creating and publishing** I can create a presentation using power point (or ipad equivalent) I can organise my ideas using text video and photos I can edit my work to make it better **Using technology** I can talk about and use and a range of different technology. I can talk about how information is stored in a computer and an ipad and on the internet I can search and explore a variety of electronic	**Using the internet** I can talk about the different forms of information (text, images, sound, multimodal) and understand some are more useful than others I can talk about how the information can be used to answer specific questions I can begin to develop key questions and find information to answer them I can recognise the layout of a web page, recognise web addresses, menu buttons and links and talk about them using ICT vocabulary. I can begin to refine my searches to find	**Programming and control** I understand what algorithms are I can control and debug the Beebot to move it to a given position I can talk about how a computer processes instructions and commands- on screen(purple mash/Beebot on iPad) and a programmable toy.(Beebot /Probot) I can programme a sequence of instructions or actions, and that these can be inputted using icons or by text. I can sequences of instructions for a variety of programmable devices.	**Using data** I can begin to create their own branching databases using ICT, identifying objects and questions to classify data. **Digital Media-**Using a digital camera I can use a digital camera to take pictures I can begin to transfer pictures to computer I can find pictures my teacher has saved for me

Play **Creating and publishing** I can create a presentation using power point (or ipad equivalent) I can organise my ideas using text video and photos I can edit my work to make it better		information as part of a given topic I can use different buttons/icons can explain what they do e.g. record, pause, play **Modelling and simulation** I can explore a simulation and talk about whether it's about real information or fantasy.			

	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
Year R	**Once upon a rhyme**	**Rumble in my tummy**	**When I grow up**	**Animal detectives**	**Pirates**	**Teddies**
Year 1	**Green fingers**	**Light factory**	**Blast off**	**Mr Benn**	**Time machine**	**Water**
Year 2	**Sweet factory**	**Remembrance**	**Dragonology**	**Google Earth**	**80 days around the world**	