

Subject Overview for Computing – September 2024

A computer expert at Manor:

- understands what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- creates and debugs simple programs
- uses logical reasoning to predict the behaviour of simple programs
- uses technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognises common uses of information technology beyond school
- uses 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.

Whilst e-safety sessions have been planned in it is also important that e-safety is embedded. Always refer back to the Computing Internet Charter to remind children of expectations relevant to learning in sessions

<u>EYFS</u>					
<u>Autumn 1</u> <u>Marvellous Me!</u>	<u>Autumn 2</u> <u>People Who Help Us/ Journeys</u>	<u>Spring 1</u> <u>Who's Afraid of the Dark?</u>	<u>Spring 2</u> <u>Magic Beans</u>	<u>Summer 1</u> <u>We're Going On a Bear Hunt/ Minibeasts</u>	<u>Summer 2</u> <u>Sand and Water</u>
e-safety – keeping our logon names private – share only with trusted adults – parent / teacher Introduce computing charter with the children,		E-safety Reminder (School charter, keeping details private) Thinkuknow Jessie & Friends Ep 1_Watching Videos		E-safety Reminder (School charter, keeping details private) Thinkuknow Jessie & Friends Ep 1_Watching Videos	
Controlling our CD player – playing stories and songs in the sound area.  Children to take photos of their favourite part of the school.	Basic Mouse Skills – moving the pointer, clicking and double clicking  <a href="http://resources.hwb.wales.gov.uk/VTC/jincy_wincy/eng/introduction/default.htm">http://resources.hwb.wales.gov.uk/VTC/jincy_wincy/eng/introduction/default.htm</a>  Access a simple game or website with teacher support. (Christmas picture game)	Reinforce Mouse Skills – moving the pointer, clicking and double clicking  Using a 2 create a story to draw a picture of an owl and write a caption underneath.  Taking photos with cameras / iPads	Remote control toys and playing with the Beebot – What do the buttons do? Can you control it to a chosen position – trial and error  2 SIMPLE MUSIC – to create their own music patterns and listening to different sounds.	Basic controls in a simple painting program- bear picture.	New Media pictures using the I-pads/ cameras to take pictures. Adapting picture to create pirate pictures.  Wanted posters- using 2 simple and 2 publish.  Beebots to pirates treasure.

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<b><u>Year 1</u></b>					
<b><u>Autumn 1</u></b> <b><u>Our School</u></b>	<b><u>Autumn 2</u></b> <b><u>Awesome Animals</u></b>	<b><u>Spring 1</u></b> <b><u>Toys</u></b>	<b><u>Spring 2</u></b> <b><u>It's our Area and We're Proud of it</u></b>	<b><u>Summer 1</u></b> <b><u>Lady with the Lamp</u></b>	<b><u>Summer 2</u></b> <b><u>Oh I Do Like to Be Beside the Seaside</u></b>
Digital Literacy - e-safety – beginning of year - Refresher to computing charter – Revisit Year R Video - Thinkuknow Jessie & Friends Ep 1_Watching Videos		Digital literacy –e-safety - Thinkuknow Jessie & Friends Ep 2_Sharing Pictures Digiducks big decision		Digital Literacy - e-safety – Who to trust – Asking for help Smartie the Penguin -	
Digital Literacy - The technology around us – School technology walk – What are the different systems doing – dinner registers – library - questionnaire to families about technology they use Phil Bagge's – supermarket baked beans role play	IT - Pictures – 2Paint – drawing animals – Taking photographs and video with our iPads	Computer Science - Introduction to algorithms - linked to instruction in literacy Everyday routines and activities – breaking problems down into parts (decomposition) Control your human robot - Phil Bagge's Lego Cranes activity	Computer Science - Beebots- linked to local area Maps – Create and debug simple programs	IT - Pictures – 2Paint – Puppetpals- ipads Taking photographs and video with our iPads  IT - Recording Sounds – e.g. class song with Audacity – sound on ActivInspire and sound in 2 Create a story Multimedia – Making talking books about Florence Nightingale	IT- 2 Publish – combining pictures and simple text. BBC Website - dancemat typing 2 Publish project – posters about the seaside.

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<b>Year 2</b>					
<b><u>Autumn 1</u></b> <b><u>Our Forest Home</u></b>	<b><u>Autumn 2</u></b> <b><u>Castles</u></b>	<b><u>Spring 1</u></b> <b><u>Katie Morag’s Magical Island</u></b>	<b><u>Spring 2</u></b> <b><u>Fire, Fire!</u></b>	<b><u>Summer 1</u></b> <b><u>We’re off to Rwanda</u></b>	<b><u>Summer 2</u></b> <b><u>Being Famous</u></b>
Digital Literacy - e-safety – beginning of year - Refresher to computing charter Revisit Year 1 video- Thinkuknow Jessie & Friends Ep 2_Sharing Pictures Read- #Goldilocks		Digital Literacy - e-safety – Stranger danger – Chicken Clicking Thinkuknow Jessie & Friends Ep 3_Playing Games (session 1)		Digital Literacy - e-safety - Can we believe everything we read? – Penguin Pig refer back to Chicken clicking Thinkuknow Jessie & Friends Ep 3_Playing Games (session 2)	
IT – Finding information from digital sources - Internet Research – Navigating websites to find information - <a href="http://www.parkfieldjct.co.uk/infant/">http://www.parkfieldjct.co.uk/infant/</a> <a href="http://www.crickweb.co.uk/ks1history.html">http://www.crickweb.co.uk/ks1history.html</a>	IT – Finding out and storing information – comparing graphs and simple databases Questions and answers	Computer Science - Beebots- - Create and debug more complex programs – Use logical reasoning to predict the behaviour of programs	IT - Multimedia – Making films - iPads – camera app for video – Stop frame animation Recounts of the fire – tudor diaries, bystander witness testimony	Computer Science - 2Go - Create and debug programs – Use logical reasoning to predict the behaviour of programs Evaluation of programmes – which were the best and why?	IT - Internet Research – The Lady of the Lamp - Presenting what you have found out – ActivInspire