

## Curriculum Map for ICT/Computing 2018 / 19

### Whole School

The objectives for Computer Science covers topics such as, how computers work, sequence, selection and variables. Visual programming languages that involve snapping blocks together, rather than keying in text, such as Scratch, is a popular tool used. Some concepts are taught away from the computer, using techniques such as role play. Computational thinking is also developed through concepts such as decomposition, in breaking down large problems into smaller parts. Information technology is very broad as it involves the creation, organisation and manipulation of digital content in both all key stages, digital content is interpreted as audio to images, to film and beyond. Students are taught how to use search technologies effectively and how to analyse, present and evaluate data. The digital citizenship component of the computing curriculum incorporates a lot of what is referred to as 'online safety', using technology safely, respectfully and responsibly. Students are taught ways to report any concerns that may have. In additions students are taught how to evaluate content and consider how reliable the information they find online is.

### **Sheeran / Rowntree**

The Farmhouse Primary computing/technology programme of study, provides the following areas of learning, Understanding the World, giving students the opportunity to explore, observe and find out about technology and people and people and communities. Students recognise that a range of technology is used in places such as home and school. They select and use technology for particular purposes. Students use the interactive white board like a big painting easel to explore. They use an iPad to take own photos, whilst exploring the camera tools. Online safety and exploration, simple coding, animated story books are just some of the areas covered within the computing scheme of work.

	<u><b>AUTUMN TERM</b></u>		<u><b>SPRING TERM</b></u>		<u><b>SUMMER TERM</b></u>	
Learning Group	Theme / topic/ Syllabus	Theme/ topic/ Syllabus	Theme/ topic/ Syllabus	Theme/ topic/ Syllabus	Theme/ topic/ Syllabus	Theme/ topic/ Syllabus
Sheeran	Use of word processing and presentations skills to communicate work studying around our topic Invaders and Settlers.		Use of word processing and presentations skills to communicate work studying around our topic Egyptians.		Use of word processing and presentations skills to communicate work studying around our Underwater world.	
Rowntree	<p>Developed research skills across the curriculum, particularly to aid with topic work around invaders and settles.</p> <p>Used digital photography to present and evidence work studied across the curriculum including outdoor curriculum at Sunnyvale/ evidencing models and group work.</p> <p>Newsround (Rowntree) Daily Reading Materials online.</p> <p>Image manipulation skills- Students adding and manipulating own pictures to evidence topic work.</p> <p>Interactive whiteboard games used to support maths sessions.</p>		<p>Developed research skills across the curriculum, particularly to aid with topic work around Egyptians.</p> <p>Used digital photography to present and evidence work studied across the curriculum including outdoor curriculum at Sunnyvale/ evidencing models and group work.</p> <p>Newsround (Rowntree) Daily Reading Materials online.</p> <p>Image manipulation skills- Students adding and manipulating own pictures to evidence topic work.</p> <p>Interactive whiteboard games used to support maths sessions.</p>		<p>Developed research skills across the curriculum, particularly to aid with topic work around Underwater world.</p> <p>Used digital photography to present and evidence work studied across the curriculum including outdoor curriculum at Sunnyvale/ evidencing models and group work.</p> <p>Using simple robots to begin programming</p> <p>Newsround (Rowntree) Daily Reading Materials online.</p> <p>Image manipulation skills- Students adding and manipulating own pictures to evidence topic work.</p> <p>Interactive whiteboard games used to support maths sessions.</p>	
Clancy and Hockney	<p>Use of word processing and presentation software to communicate topic work.</p> <p>Use of research across the curriculum to aid topic work.</p> <p>My Maths – weekly</p>	<p>Use of word processing and presentation software to communicate topic work.</p> <p>Use of research across the curriculum to aid topic work.</p> <p>My Maths – weekly</p>	<p>Use of word processing and presentation software to communicate topic work.</p> <p>Use of Serif to create simple animations.</p>	<p>Plan and create a multi-layered presentation about a chosen religion, combine from a range of sources, organise and refine to suit purpose and audience.</p>	<p>Use of word processing and presentation software to communicate topic work.</p> <p>Use of research across the curriculum to aid topic work.</p>	<p>Ipads to record images.</p> <p>Digital image manipulation of photographs taken at Sunnyvale.</p>

	Students check emails and communicate with staff etc – weekly Newsround online – Daily Reading Materials online.	Students check emails and communicate with staff etc – weekly Newsround online – Daily Reading Materials online.	Use of research across the curriculum to aid topic work.  My Maths – weekly Students check emails and communicate with staff etc – weekly Newsround online – Daily Reading Materials online.	E-safety awareness and understanding of how to keep us safe online	My Maths – weekly Students check emails and communicate with staff etc – weekly Newsround online – Daily Reading Materials online.	
Adams and Priestley	E-safety awareness and understanding of how to keep us safe online  Use of ThinkUKnow materials	Using word processing, publishing and presentation software to ensure students are able to produce business documentation.	Creating and using spreadsheets	Control technology using lego models	Creating and using Databases	Programming languages
Frayne and Ennis	Use of word processing and presentation software to enhance coursework.  Use of research across the curriculum to aid coursework.  components of a computer internal components of a computer and their function peripherals and their function.	Use of word processing and presentation software to enhance coursework.  Use of research across the curriculum to aid coursework.  Creating animated GIFs using drawing software	Use of word processing and presentation software to enhance coursework.  Use of research across the curriculum to aid coursework.  Moral, legal, and environmental concerns - moral issues - legal issues - environmental issues - open source and proprietary software - computer science legislation	Use of word processing and presentation software to enhance coursework.  Use of research across the curriculum to aid coursework.  Use of photo editing software to manipulate images for Art coursework	Use of word processing and presentation software to enhance coursework.	Use of research across the curriculum to aid coursework.