

Thurnham Whole School Computing Progression 2022-23

Progression in Computing through our Empowering Curriculum

“At Thurnham our Empowering Curriculum will give pupils the key skills that they need to flourish; Brain Power, Resilience and Independence”
The Computing Curriculum covers three strands: Computer Science, Information Technology and Digital Literacy. This document covers the objectives within each strand.

Year R	Year 1	Year 2
Computer Science		
Technology does not feature in the new EYFS educational programmes.	Pupils should be taught to: <ul style="list-style-type: none"> • 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 	
<ul style="list-style-type: none"> ➤ I can use remote control cars and small programmable toys. ➤ I can tinker with beebots. 	<ul style="list-style-type: none"> ➤ I can use BeeBots in a specific way, moving around obstacles or to specific places. ➤ Espresso Coding Activities: Each lesson will build upon the last, building up to the final lesson: <ul style="list-style-type: none"> ✓ ALL: I can design and program an app in which an object moves around the screen at the start ✓ MOST: I can design and program an app in which objects move in different directions and disappear when they are clicked on ✓ SOME: I can design and program an app and explain how I programmed the objects to do different actions 	<ul style="list-style-type: none"> ➤ I can use BeeBots in a specific way, moving around obstacles or to specific places. ➤ Espresso Coding Activities: Each lesson will build upon the last, building up to the final lesson: <ul style="list-style-type: none"> ✓ ALL: I can make an app in which a princess can escape from a wizard when she is clicked on ✓ MOST: I can make an app in which a wizard chases a prince, and the prince disappears when he is clicked on ✓ SOME: I can design a scene for my app and use the ‘share’ button to save and share it with other people

Information Technology		
<p>Technology does not feature in the new EYFS educational programmes.</p>	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school 	
<ul style="list-style-type: none"> ➤ I can use a variety of programs including online activities to develop decision making tasks and basic picture creating. ➤ I can select and use technology for a purpose. ➤ I can recognise a range of technology used in places such as homes and schools. 	<ul style="list-style-type: none"> ➤ I can use digital cameras and video to create content and store on device. ➤ I can create pictures and text files and store on a device. Reopen files to continue creating at a later stage. ➤ I can create audio files as interactive books. ➤ I can think about my own use of ICT beyond school, as well as ICT within my home. ➤ I can identify a problem, plan, create, collect, present and analyse data using pictograms and bar charts. ➤ I can upload my learning to an online learning platform (Seesaw) with adult support. ➤ I can use book creator/Popplet lite. ➤ Cross-curricular use of iPads to research and present learning. 	<ul style="list-style-type: none"> ➤ I can use digital cameras and videos to create content and retrieve it to show others. ➤ I can create pictures and text including interactive content and store, retrieve and print work independently. ➤ I can create content for public audience and edit by manipulation and retrieve and save safely. ➤ I can look at how the school system works, when we log on what happens. ➤ I can think about uses of ICT in my home. ➤ I can say how parents use ICT in their jobs, from visits from parents. ➤ I can identify a problem, plan, create, collect, present and analyse data using branching data bases. ➤ I can independently upload my learning to an online learning platform (Seesaw). ➤ Cross-curricular use of iPads to research and present learning.

Digital Literacy		
Technology does not feature in the new EYFS educational programmes.	Pupils should be taught to: <ul style="list-style-type: none"> • 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. 	
<p>THIS UNIT NEEDS TO BE INCLUDED IN ALL SUBJECTS WHEN THE INTERNET IS BEING USED AS A SAFE USAGE REMINDER NEEDS TO BE INCLUDED IN SUBJECT PLANS FOR THIS.</p> <p>In Term 1 all children are issued with Espresso QR codes and Seesaw codes so they are taught about logging onto a device and logging off once finished and the importance of security of personal data.</p>		
<ul style="list-style-type: none"> ➤ I can talk about ways to keep safe online. 	<ul style="list-style-type: none"> ➤ I can log on to Seesaw using my own login. ➤ I can communicate online with people I know. ➤ E-safety taught in the first term through 'Hector's World' ➤ Whole school Safer Internet Day. ➤ E-safety taught through PSHE sessions. 	<ul style="list-style-type: none"> ➤ I can log on to Seesaw using my own login and talk about why it is important to have a safe secure login. ➤ I can communicate online with people I do not know well. ➤ E-safety taught in the first term through 'Hector's World' ➤ Whole school Safer Internet Day. ➤ E-safety taught through PSHRE sessions.

Independence
Resilience
Brain Power
Creativity

"WITH GOD WE LEARN TO LIVE AND LOVE TO LEARN."