

Thurnham Whole School Computing Progression 2019 – 2020

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, Independence, Investigating and Creativity”

Year R	Year 1	Year 2
Programming		
Understanding the World: Technology: They select and use technology for particular purposes.	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 experiment with using 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"> ➤ 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
Digital Content		
Understanding the World: Technology: They select and use technology for particular purposes.	Pupils should be taught to: <ul style="list-style-type: none"> • use technology purposefully to create, organise, store, manipulate and retrieve digital content 	
<ul style="list-style-type: none"> ➤ I can use a variety of programs including online activities to develop mouse control, 	<ul style="list-style-type: none"> ➤ I can use digital cameras and video to create content and store on device. 	<ul style="list-style-type: none"> ➤ I can use digital cameras and videos to create content and retrieve it to show

<p>decision making tasks and basic picture creating.</p> <ul style="list-style-type: none"> ➤ I can select and use technology for a purpose. 	<ul style="list-style-type: none"> ➤ I can create pictures and text files and store on personal login. Reopen files to continue creating at a later stage. ➤ I can create audio files as interactive books. 	<p>others.</p> <ul style="list-style-type: none"> ➤ 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.
Uses of Information Technology		
<p>Understanding the world: Technology Children recognise that a range of technology is used in places such as homes and schools.</p>	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> • recognise common uses of information technology beyond school 	
<ul style="list-style-type: none"> ➤ I can recognise a range of technology used in places such as homes and schools. 	<ul style="list-style-type: none"> ➤ I can explore uses of ICT around school. ➤ I can think about my own use of ICT beyond school, as well as ICT within my home. 	<ul style="list-style-type: none"> ➤ 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.
e-safety		
<p>Health and self-care: Talk about ways to stay healthy and safe.</p>	<p>Pupils should be taught to:</p> <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. 	
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.		
<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 the school system using my own login. ➤ <i>Whole school Safer Internet Day.</i> ➤ <i>E-safety taught through PSHE sessions.</i> 	<ul style="list-style-type: none"> ➤ I can log on to the school system using my own login and talk about why it is important to have a safe secure login. ➤ <i>Whole school Safer Internet Day.</i> ➤ <i>E-safety taught through PSHE sessions.</i>