THORPE HESLEY PRIMARY SCHOOL

Progression Document for Computing

Progression Document for EYFS

	0-3 Years - N1 (Jan Nursery Starters)	3-4 Years – N1 (Jan Nursery Starters) & N2 (Sep Nursery Starters)	Reception
Disciplinary Knowledge Discussion Exploration First-hand experience of technology	**Key Vocabulary:** computer On Off touch	**Key Vocabulary:** computer Press Explore Feel Swipe	**Key Vocabulary:** Internet Search Keyboard Computer Laptop iPad Mouse **Online Safety:** Safe Online
	Substantive Knowledge: Develop manipulation and control. Explore different materials and tools.	**Substantive Knowledge:** Explore how things work. Know that there are different countries in the world and talk about the differences they have experienced or seen in photos.	**Substantive Knowledge:** Comment on images of familiar situations in the past. Compare and contrast characters from stories, including figures from the past. Draw information from a simple map.

Progression Document for KS1/KS2

	Year 1	Year 2	Year 3
Disciplinary Knowledge First-hand experience of technology Discussion Exploration Demonstration Collaboration Producing documents Working with partners	**Key Vocabulary:** document Coding Google presentation slide website caps lock photographs font delete undo Forwards Backwards Left Right **Online Safety:** Internet Online safety gaming Videos	**Key Vocabulary:** design layout images text captions labelling layout template Program Repeat Predict Instruction **Online Safety:** Internet Online safety gaming Videos chatting online personal information YouTube	**Key Vocabulary:** search engine buttons copy paste undo delete programming **Online Safety:** Language appropriate inappropriate online safety age restriction

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	chatting online personal information YouTube Sharing app trusted adult	Sharing	
	Substantive Knowledge: Understanding how to use technology, how to be safe and knowing how to program. I can predict the outcome of a command on a device I can match a command to an outcome I can recall words that can be acted out I can compare forwards and backwards movements I can start a sequence from the same place I can predict the outcome of a sequence involving forwards and backwards commands I can compare left and right turns I can describe some uses of computers I can identify that a computer is a part of information technology I can explain the purpose of information technology in the home I can talk about uses of information technology I can take a photo	**Substantive Knowledge:** Understanding how to use technology, how to be safe and knowing how to program. I can show the difference in outcomes between two sequences that consist of the same commands I can follow a sequence I can predict the outcome of a sequence I can describe some uses of computers I can identify that a computer is a part of information technology I can explain the purpose of information technology in the home I can talk about uses of information technology I can compare types of information technology I can list different uses of information technology I can improve a photograph by retaking it I can explore the effect that light has on a photo I can experiment with different light sources I can recognise that images can be changed	**Substantive Knowledge:** Understanding how to use technology, how to be safe and knowing how to program. Learn how to create sequence of commands Understand how to programme movement Copyright and ownership Explain why copying someone else's work from the internet without permission can cause problems and give examples.

Progression Document for KS1/KS2

	Year 4	Year 5	Year 6
Disciplinary Knowledge First-hand experience of technology Working with partners Producing documents Discussion Peer teaching	**Key Vocabulary:** data tools crop results presentation software slide **Online Safety:** PEGI rating Cyberbullying Language appropriate inappropriate online safety age restriction permission	**Key Vocabulary:** Network internet router firewall browser repetition program programming direction coordinates simulation **Online Safety:** filtering download upload post virus ownership copyright	**Key Vocabulary:** LAN (Local Area Network) PAN (Personal Area Network) WAN (Wide Area Network) Hacking Excel Axis Process Input Output **Online Safety:** inappropriate content cyberbullying social networking site personal information webcam privacy settings hacker

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	Substantive Knowledge: Understanding how to use technology, how to be safe and knowing how to program. To explain what 'repeat' means To develop the use of count-controlled loops in a different programming environment To develop a design that includes two or more loops which run at the same time To design a project that includes repetition To recognise that not all images are real	**Substantive Knowledge:** Understanding how to use technology, how to be safe and knowing how to program. To explain how sharing information online lets people in different places work together To recognise video as moving pictures, which can include audio To identify digital devices that can record video To recognise the features of an effective video To identify that video can be improved through reshooting and editing	**Substantive Knowledge:** Understanding how to use technology, how to be safe and knowing how to program. To create a program to run on a device To define a 'variable' as something that is changeable To explain why a variable is used in a program To create a spreadsheet to plan an event

Disciplinary Concept	Definition.
Code	Using and writing codes to produce instructions and algorithms; to solve problems; to test and use logic and sequences against inputs and outputs.
Connect	Being able to safely, efficiently and confidently digitally connect with others.
Communicate	Being able to safely, efficiently and confidently use apps and information technology to communicate ideas.
Collect	Being able to safely, efficiently and confidently find, evaluate, store, sort and use appropriate data.

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