



AUSTHORPE PRIMARY SCHOOL

CURRICULUM PROGRESSION

COMPUTING



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computers and Using Computers	<ul style="list-style-type: none"> Recognise different technologies in school and at home Use technology, e.g. given app or program 	<ul style="list-style-type: none"> recognise common uses of information technology in the home and school environment use technology to purposely create digital content 	<ul style="list-style-type: none"> recognise common uses of information technology beyond school use technology to purposely create, organise, store, manipulate and retrieve digital content use technology to purposely create digital content comparing the benefits of different programs 	<ul style="list-style-type: none"> recognise familiar forms of input and output devices and how they are used make efficient use of familiar forms of input and output devices with support select and use a variety of software to accomplish goals 	<ul style="list-style-type: none"> use other input devices such as cameras or sensors with support select and use a variety of software on a range of digital devices with support select, use and combine a variety of software on a range of digital devices to accomplish given goals 	<ul style="list-style-type: none"> independently select and use appropriate software for a task independently select use and combine a variety of software to design and create content for a given audience 	<ul style="list-style-type: none"> independently select, use and combine a variety of software to design and create content for a given audience, including collecting, analysing, evaluating and presenting data and information design and create a range of programs, systems and content for a given audience independently select, use and combine a variety of software to collect, analyse, evaluate and present data and information
Online Safety	<ul style="list-style-type: none"> ☐ Recognise the difference between 	<ul style="list-style-type: none"> ☐ understand where to go for help and support when 	<ul style="list-style-type: none"> ☐ use technology safely and keep personal 	<ul style="list-style-type: none"> use technology safely and respectfully, keeping 	<ul style="list-style-type: none"> use technology responsibly and understand that communication 	<ul style="list-style-type: none"> understand the need to only select age 	<ul style="list-style-type: none"> use technology respectfully and responsibly identify a range of

	friends and strangers	he/she has concerns about content or contact on the internet or other online technologies	information private	personal information private <ul style="list-style-type: none"> use technology safely and recognise acceptable and unacceptable behaviour 	online may be seen by others <ul style="list-style-type: none"> understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies 	appropriate content	ways to report concerns about content and contact in and out of school
Coding	<ul style="list-style-type: none"> understand a series of instructions (two or more) create a set of instructions 	<ul style="list-style-type: none"> predict the behaviour of simple programs understand what algorithms are and how they are implemented on digital devices 	<ul style="list-style-type: none"> use logical reasoning to predict the behaviour of simple programs create simple programs create and debug simple programs debug simple programs by using logical reasoning to predict the actions 	<ul style="list-style-type: none"> design, write and debug programs that control or simulate virtual events use logical reasoning to explain how some simple algorithms work 	<ul style="list-style-type: none"> decompose programs into smaller parts use logical reasoning to detect and correct errors in algorithms and programs select, use and combine a variety of software, systems and content that accomplish given goals 	<ul style="list-style-type: none"> design, input and test an increasingly complex set of instructions to a program or device design write and debug programs that accomplish specific goals, including controlling or simulating physical systems design write and test simple programs that follow a 	<ul style="list-style-type: none"> include use of sequences, selection and repetition with the hardware used to explore real world systems solve problems by decomposing them into smaller parts use variables, sequence, selection and repetition programs use logical reasoning to explain how



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			<p>instructed by the code</p> <ul style="list-style-type: none"> understand that programs execute by following precise and unambiguous instruction 			<p>sequence of instructions or allow a set of instructions to be repeated design, write and test simple programs wit opportunities for selection, where a particular result will happen based on actions or situations controlled by the user</p> <ul style="list-style-type: none"> use logical reasoning to explain how increasingly complex algorithms work to ensure a program's efficiency 	<p>increasingly complex algorithms work and to detect and correct errors in algorithms and programs efficiently</p>
Networks				<ul style="list-style-type: none"> understand that computer networks enabling the sharing of data and information understand that the internet is a large network of computers and 	<ul style="list-style-type: none"> understand what services are and how they provide services to a network 	<ul style="list-style-type: none"> begin to use internet services to share and transfer data to a third party 	<ul style="list-style-type: none"> understand how computer networks enable computers to communicate and collaborate begin to use internet searches within his/her own creations to share



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				that information can be shared between computers			and transfer data to a third party
Net Searching				<ul style="list-style-type: none"> • use simple search technologies • use simple search technologies and recognise that some sources are more reliable than others 	<ul style="list-style-type: none"> □ understand how results are selected and ranked by search engines 	<ul style="list-style-type: none"> • use filters in search technologies effectively use filters in search technologies effectively and appreciate how results are selected and ranked 	<ul style="list-style-type: none"> • use filters in search technologies effectively and is discerning when evaluating digital content