Computing Overview and Intent– Crackley Bank Primary School

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Computing systems and	Creating media	Data and information	Programming A	Creating media	Programming B
	networks					
Recepti	Technology in my classroom	Digital media	Data Collecting data in simple	Human Algorithms Learn	Digital devices Children	Robot algorithms Moving a
on	What equipment do we have	Using the interactive white	ways practically	about making and following	logging on to devices.	programmable robot
	to support our learning?	board; drawing/ writing	Converse data Frantzia	instructions	Distant contains a litera	Durana na maisa a an ina ati an a
Year 1	Technology around us Recognising technology in	Digital painting Choosing appropriate tools in a	Grouping data Exploring object labels, then using them	Moving a robot Writing short algorithms and programs for	Digital writing Using a computer to create and	Programming animations Designing and programming
	school and using it responsibly	program to create art, and	to sort and group objects by	floor robots, and predicting	format text, before comparing	the movement of a character
	serious and asing revesponsibly	making comparisons with	properties.	program outcomes.	to writing non-digitally	on screen to tell stories
		working non-digitally.			,	
Year 2	Information technology	Digital photography Capturing	Pictograms Collecting data in	Robot algorithms Creating	Making music Using a	Programming quizzes
	around us Identifying IT and	and changing digital	tally charts and using	and debugging programs, and	computer as a tool to explore	Designing algorithms and
	how its responsible use	photographs for different	attributes to organise and	using logical reasoning to	rhythms and melodies, before	programs that use events to
	improves our world in school	purposes.	present data on a computer.	make predictions.	creating a musical	trigger sequences of code to
V2	and beyond.	Character and a series and a se	Door ship a database a Daildin a	Commencia a commencia de Commetica a	composition.	make an interactive quiz.
Year 3	Connecting computers Identifying that digital devices	Stop-frame animation Capturing and editing digital	Branching databases Building and using branching	Sequencing sounds Creating sequences in a block-based	Desktop publishing Creating documents by modifying text,	Events and actions in programs Writing algorithms
	have inputs, processes, and	still images to produce a stop-	databases to group objects	programming language to	images, and page layouts for a	and programs that use a
	outputs, and how devices can	frame animation that tells a	using yes/no questions.	make music.	specified purpose.	range of events to trigger
	be connected to make	story.				sequences of actions.
	networks					·
Year 4	The internet Recognising the	Photo editing Manipulating	Data logging Recognising how	Repetition in shapes Using a	.Audio editing Capturing and	Repetition in games Using a
	internet as a network of	digital images, and reflecting	and why data is collected over	text-based programming	editing audio to produce a	block-based programming
	networks including the	on the impact of changes and	time, before using data	language to explore count-	podcast, ensuring that	language to explore count-
	WWW, and why we should evaluate online content.	whether the required purpose is fulfilled	loggers to carry out an	controlled loops when	copyright is considered.	controlled and infinite loops
Year 5	Computing and Networks	Creating Media – Video	investigation. File Data Bases	drawing shapes. Selection in physical	Vector Drawing	when creating a game. Selection in Quizzes
Teal 3	Sharing Information	Editing	Flat-file databases Using a	Computing	Vector drawing Creating	Selection in quizzes Exploring
	Sharing information	Video editing Planning,	database to order data and	Selection in physical	images in a drawing program	selection in programming to
	Identifying and exploring how	capturing, and editing video	create charts to answer	computing Exploring	by using layers and groups of	design and code an interactive
	information is shared	to produce a short film.	questions.	conditions and selection using	objects.	quiz.
	between digital systems.			a programmable		
				microcontroller.		
Year 6	Internet Communication	Webpage creation	Introducing Spreadsheets	Variables in Games	3D Modelling	Sensing
	Internet communication	Webpage creation Designing	Introduction to spreadsheets	Variables in games Exploring	3D modelling Planning,	Sensing Designing and coding
	Recognising how the WWW can be used to communicate	and creating webpages, giving consideration to copyright,	Answering questions by using spreadsheets to organise and	variables when designing and	developing, and evaluating 3D computer models of physical	a project that captures inputs
	and be searched to find	aesthetics, and navigation.	spreadsneets to organise and calculate data.	coding a game.	objects.	from a physical device.
	information.	acsilicuo, aliu liavigatioli.	calculate data.		Objects.	
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The school's intent for Computing learning focusses on developing a wealth of learning opportunities and transferrable skills explicitly within the Computing lesson and across other curriculum subjects. We teach our pupils to become responsible, competent and creative users of information and communication technology. The curriculum covers four areas: Creating Media, Data and handling through Data and information, Computing Systems and Networks and Computing Science through programming. We have adopted a spiral curricular approach to ensure that each strand taught is revisited each year, crucial knowledge is embedded and built on.

The curriculum is organised through the year alongside other curriculum subjects, so for example the Data handling is in the Spring term is to coincide with Science week, giving a purpose and focus for using data handling. Not only do we want children to be digitally literate and competent end-users of technology but through our computer science lessons we want them to develop creativity, resilience, problem-solving and critical thinking skills. This is why there are two opportunities during the year to practise using algorithms through programming.

Through our computing curriculum we aim to give our pupils the life-skills that will enable them to embrace and utilise new technology in a socially responsible and safe way in order to flourish. To ensure the social and emotional development of our children, Online Safety is taught robustly throughout the year alongside the units of work as well as through PSHE. We believe that if we present children with scenarios they may come across in their digital world in a safe environment then this will give them the skills and confidence to know what is right and wrong and ask for help when they need it.