

Purpose of study

A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that pupils become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.

Aims

The national curriculum for computing aims to ensure that all pupils:

- + can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- + can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- + can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems

A are responsible, competent, confident and creative users of information and communication technology

Intent

At Caythorpe, we use Teach Computing, provided by the NCCE, as the basis of our sequence of learning.

All learning outcomes can be described through a high-level taxonomy of ten strands, ordered alphabetically as follows:

- Algorithms Be able to comprehend, design, create, and evaluate algorithms
- Computer networks Understand how networks can be used to retrieve and share information, and how they come with associated risks
- Computer systems Understand what a computer is, and how its constituent parts function together as a whole
- Creating media Select and create a range of media including text, images, sounds, and video
- Data and information Understand how data is stored, organised, and used to represent real-world artefacts and scenarios
- Design and development Understand the activities involved in planning, creating, and evaluating computing artefacts
- Effective use of tools Use software tools to support computing work
- Impact of technology Understand how individuals, systems, and society as a whole interact with computer systems
- Programming Create software to allow computers to solve problems
- Safety and security Understand risks when using technology, and how to protect individuals and systems

The taxonomy provides categories and an organised view of content to encapsulate the discipline of computing. Whilst all strands are present at all phases, they are not always taught explicitly.

Due to our mixed year groups, we have adapted the structure of the Teach Computing scheme. The 'Computing Systems and Networks' unit is combined for Year 1/2, Year 3/4, and Year 5/6. This is then repeated in each cycle; it is expected that children will be completely secure in their knowledge by the end of each phase. This approach allows all children in the class to learn the key knowledge which underpins all the other units. Some of the units have been reordered to ensure that prior knowledge that the children need is taught before moving onto more complex learning. Our use of flashbacks allows children to revisit knowledge regularly so that they can remember key knowledge more effectively and do not forget.

Our pedagogical approach allows children to work collaboratively towards a project-based goal. The sequence of learning is taught through key concepts and vocabulary. In the first instance, children are encouraged to unplug from technology and explore ideas in other familiar real-life contexts before applying this to the new technological context. Children are continually encouraged to work with physical computing to enhance learning. As well as this, they apply knowledge from the arts alongside computing to achieve a goal. In programming our sequence allows children to explore, read and comprehend block based and text base code; leading them to successfully being able to write code.

EYFS

There are no statutory requirements to use and learn about technology in EYFS. However, at Caythorpe we believe technology can play a role in supporting early communication, language and literacy. It can offer new learning opportunities through ebooks, digital cameras, programmable toys, apps, computers with appropriate software, iPads and video calling. Thus, by the end of the year the pupils at Caythorpe have a range of technologies available to them within the nursery's continuous provision which they can choose to use whenever they wish to for their own purposes. Whilst children are developing their understanding of these technologies, practitioners should be drawing their attention to the technology that's being used in the world around them, from mobile phones to pedestrian crossings. Practitioners should also provide a positive role model by showing children that adults use technology for their own purposes and by talking to the children about the value they place on this use. In this way children will see technology used for real purposes and will develop the understanding that technologies are tools to be used when they're needed and that they're not used just for the sake of it. They will develop a positive disposition towards technology and a motivation to use it both now and in the future.

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study. Schools are not required by law to teach the example content in [square brackets]. Key stage 1 Pupils should be taught to:

• 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

• use technology purposefully to create, organise, store, manipulate and retrieve digital content

* recognise common uses of information technology beyond school

• 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.

		Autum	In	Spi	ring	Sum	mer
	Non- Negotiables C8: Participate in class social media accounts, C9: Understand online risks and the age rules for sites., C10: Use a range of applications and devices in order to communicate ideas, work and messages.						
		<u>Computer systems and networks – IT and</u>	<u>Creating Media – Digital Writing</u>	Programming B – Introduction to	Data and information – Grouping data	<u> Creating Media – Making Music</u>	Programming B - Quizzes
Ĭ	pic	Technology around us		Animation	and Pictograms		
ssion		This combines the year 1 and year 2 units for 'computer systems and networks' and the same pieces of procedural and declarative knowledge are taught in both cycles due to the importance of knowledge: underpinning the rest of the computing curriculum. It is expected that by the end of year 2 all children will know	This unit progresses students' knowledge and understanding of using computers to create and manipulate digital content, focussing on using a word processor. The learners will develop their ability to find and use the keys on a keyboard in order to create digital content. The learners are then introduced to manipulating the resulting	This unit introduces programming in the Scratch Jnr environment. It supports learners in how to provide a set of instructions/commands to create a programme. They will need some prior knowledge on giving sets of instructions.	This combines the year 1 and 2 Data and Information Units. Some of the year 1 objectives are covered within the EYFS White rose maths curriculum and have therefore been combined. To extend year 2 an additional WALT has been added to help move their learning forward further. The children will revisit the same key knowledge	Learners will have experience of making choices on a tablet/computer, and they will be able to navigate within an application. Learners will also have some experience of patterns. This unit progresses students' knowledge through listening to music and considering how music can affect how we think and feel. Learners will then purposefully create rhythm patterns and music.	This unit progresses learners' knowledge and understanding of instructions in sequences and the use of logical reasoning to predict outcomes.
Progre	2	and remember the key knowledge outlined.	text, making cosmetic changes, and		again in the next cycle with the aim that the children will know and		

		justifying their reason for making these		remember the key knowledge by the		
		changes.		end of year 2.		
Hierarchies	C8: Participate in class social media accounts. C9: Understand online risks and the age rules for sites.	C10: Use a range of applications and devices in order to communicate ideas, work and messages.	C10: Use a range of applications and devices in order to communicate ideas, work and messages.	C10: Use a range of applications and devices in order to communicate ideas, work and messages. C11: Use simple databases to record information in areas across the curriculum.	C10: Use a range of applications and devices in order to communicate ideas, work and messages.	C1: Control motion by specifying the number of steps to travel, direction and turn. C2: Add text strings, show and hide objects and change the features of an object. C3: Select sounds and control when they are heard, their duration and volume. C4: Control when drawings appear and set the pen colour, size and shape. C5: Specify user inputs (such as clicks) to control events. C6: Specify the nature of events (such as a single event or a loop). C7: Create conditions for actions by waiting for a user input (such as responses to questions like: What is your name?).
Resources	Laptops, iPads, paint program	Laptops, Word	Ipads, Scratch Jnr	Laptops, I pads j2e pictogram tool.	Laptops/Ipads Chrome music lab/song maker or equivalent	Ipads, Scratch Jnr
Vocabular Y	Technology, computer, mouse, screen, keyboard, information technology, devices, app, program, click, drag, button, bar code, bank card	Text, delete, keys, back space, enter/return,	Block, algorithm, sprite, start, run, join, background, program	Compare, tally, record, table, more than, less than, data,	Rhythm, music, patterns, create, select, combine,	Block, green flag, program, sequence,
Flashback	 Select technology for simple purposes They must be safe when using technology 	 How to use a keyboard to create and edit text. How to use a mouse to move the cursor, open a file and create a picture. We should always follow the rules given to use when using IT so that we can keep ourselves and others safe. 	 IT can be used for lots of different purposes and it is important to choose the right pieces of equipment for a particular purpose. We should always follow the rules given to use when using IT so that we can keep ourselves and others safe. 	 How to use a mouse to move the cursor, open a file and create a picture. IT can be used for a range of purposes We should always follow the rules given to use when using IT so that we can keep ourselves and others safe. 	How to use letter, number and Space keys to input text into a computer. That you can use the shift key to change the output of the key press. They will use this to add punctuation such as question marks and exclamation marks. The appearance of text can be changed, including the size and font.	An algorithm is a set of instructions that we use to input a set of commands to create a programme. In order to run a program I need to use a start block such as pressing the character or pressing the green flag. A program can allow multiple sprites to move at one time.
Lesson 1	 WALT: identify technology and recognise the uses and features (Y1 L1-2) Activities: Look at examples of technology in the classroom, as well as identifying a 	WALT: use a computer to write Activities: This is the first lesson in which Year 1 learners will experience using a computer to create and manipulate text. It is important that they know how to log	WALT: choose a command for a given purpose Activities: (As a piece of prior learning, children should practice giving and following a sequence of instructions)	WALT: label, group and count objects (Y1 L1-2)	WALT: know how music can make us feel Activities: The learners will listen to and compare two pieces of music from <i>The</i> <i>Planets</i> by Gustav Holst. They will then use a musical description word bank to	 WALT: that a sequence of commands has a start Activities: During this lesson, learners will recap what they know already about the ScratchJr app. They will

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computer and its main parts. They should	on and follow the rules that keep them	During this lesson learners will become	Activities: Children will understand that we	describe how this music generates	begin to identify the start of sequences
practice logging into a computer and use a	safe. In this lesson, the learners will	accustomed to the ScratchJr programming	can use labels to put things into groups.	emotions, i.e. how it makes them feel.	in real-world scenarios, and learn that
mouse to click and drag. (Year 2 – recognise	familiarise themselves with a word	environment. They will discover that they can move characters on-screen using	They will also know that objects can fit into	Children will know: simple differences in pieces of music	sequences need to be started in ScratchJr. Learners will create
why we might need to drag objects)	processor and think about how they	commands.	more than one group. In this lesson, pupils	simple unterences in pieces of music	programs and run them in full-screen
	might use this application in the future.		will begin to think about grouping objects	how to listen to a range of music (links	mode using the Green flag .
Children will know:	The learners will also be identifying and	Children will know:	based on what the objects are. They will	to the Music curriculum)	
examples of technology and how they help	finding keys, before adding text to their		demonstrate the ability to count a small		Children will know:
us, including technology in the classroom.	page by pressing keys on a keyboard.	How to give and follow a sequence of	number of objects before they group	how music makes me feel, e.g. happy or	
		instructions.	them, and will then begin to show that	sad	a program needs to be started
the main parts of a computer	Children will know:		they can count groups of objects with the		
	how to log on and open a word	the commands needed to move a sprite	same property. Pupils will also begin to		how to create the start of a sequence
how to switch on and log on to a laptop	processor		learn that computers are not intelligent		
		how to use commands to move a sprite	and require input from humans to perform		how to run my program
how to use a mouse to click and drag	keys on a keyboard contain letters,		tasks.		
	numbers and symbols				
	find and use kove on a keybaard		Children will know:		
	find and use keys on a keyboard		how to label and match objects to existing		
			groups.		
			how to group objects		
			how to count groups of objects		
WALT: use a mouse in different ways and	WALT: add and remove text on a	WALT: show that a series of commands can	WALT: To describe objects and count those	WALT: identify that there are patterns in	WALT: explain that a sequence of
type on a keyboard. (Y1 L3-L4)	computer	be joined together	with similar properties. (Y1 L3-4)	music	commands has an outcome
Activities: Building on from last lesson.	Activities: In this lesson, learners will	Activities: During this lesson learners will		Activities: In this lesson, learners will	Activities: During this lesson, learners
Learners will log in, open paint, draw a	continue to familiarise themselves with	discover that blocks can be joined together	Activities: In this lesson, pupils will begin	explore rhythm . They will create	will discover that a sequence of
picture. They will then open Word and write	word processors and how they can	in ScratchJr. They will use a Start block to	to understand that objects can be	patterns and use those patterns as	commands has an 'outcome'. They will
their name. They can save their work using	interact with the computer using a	run their programs. They will also learn	described in many different ways. They will	rhythms. They will use untuned	predict the outcomes of real-life
the save icon as a next step. (Year 2 will use	keyboard. The learners will focus on	additional skills such as adding	identify the properties of objects and begin	percussion instruments and computers	scenarios and a range of small
paint to create complex drawings and making careful choices building upon their digital	adding text and will explore more of the	_	to understand that properties can be used	to hear the different rhythm patterns that they create.	programs in ScratchJr. Learners will then match programs that produce the
painting unit from)	keys found on a keyboard. Finally, they	o	to group objects; for example, objects can	Children will know:	same outcome when run, and use a
	will begin to use the backspace button to		be grouped by colour or size. Pupils will		set of blocks to create programs that
Children will know:	remove text from the computer.		classify objects based on their properties.	how to create a rhythm pattern	produce different outcomes when run.
how to use a mouse to create a picture.		Children will know:	They will group objects that have similar		
	Children will know:	how to use more than one block by joining	properties, and will be able to explain how	how to play an instrument following a	Children will know:
how to use a mouse to open a program.		them together	they have grouped these. Pupils will begin to group a number of the same objects in	rhythm pattern	how to predict the outcome of a
what a keyboard is and to type their name	how to enter text into a computer		different ways, and will demonstrate their		sequence of commands
		how to use a Start block in a program	ability to count these different groups.	that music is created and played by	how to match two sequences with the
	how to use letter, number, and space			humans	
	keys	how to run their program	Children will know:		same outcome
			how to find objects with similar properties		how to change the cuteome of a
	how to use backspace to remove text				how to change the outcome of a
			how to group objects in more than and		sequence of commands
			how to group objects in more than one		
			way		
			how to count objects that share a property		
			now to count objects that share a property		

Lesson 2

WALT: use a keyboard to edit text (Y1 L5)		WALT: identify the effect of changing a	WALT: compare and describe a group of		WALT: create a program using a given
	WALT: identify that the look of text can	value	objects and answer questions about these.	WALT: describe how music can be used	design
Activities: Children will continue to practice	be changed on a computer			in different ways	Activities: During this lesson, learners
learning to type, and learners will log in and		Activities: During this lesson learners will	(Y1 L5-6)		will be taught how to use the Start on
open their word document from last lesson.	Activities: In this lesson, learners will	_		Activities: In this lesson, learners will	tap and Go to page (Change
They will then practice deleting letters and	begin to explore the different tools that		Activities: In this lesson, pupils will decide	explore how music can be used in	background) blocks. They will use a
using the arrow keys to select a particular	can be used in word processors to change		how to group objects to answer questions.	different ways to express emotions and	predefined design to create an
letter that they want to delete or change.	the look of the text. Learners will use the		They will compare their groups by thinking	to trigger their imaginations. They will	animation based on the seasons.
		the effect on a block of changing a value.	about how they are similar or different,	experiment with the pitch and duration	Learners will then be introduced to the
	Caps Lock key to add capital letters to		and they will record what they find. They	of notes to create their own piece of	task for the next lesson. They will
Children will know:	their writing and will begin thinking	Children will know:	will then share what they have found with	music, which they will then associate	predict what a given algorithm might
	about how to use this successfully. The		their peers.	with a physical object — in this case, an	mean.
how to delete letters	learners will match simple descriptions	which blocks have numbers	Children will know:	animal.	Children will know:
	with the key that they relate to. Finally,		Children will know:	Children will know:	what the actions of a sprite in an
how to open work from a file	learners will begin exploring the different	how to change the value		how to connect images with sounds	algorithm will be
	buttons available on the toolbar in more		how to group objects to answer a question		
how to use arrow keys to move a cursor	detail, and use these to change their own	what happens when I change a value		how to use a computer to experiment	which blocks to use to meet the design
		what happens when i change a value	how to compare groups of objects	with pitch and duration	
	text.				how to build the sequences of blacks
			how to record and explain what I have	how to relate an idea to a piece of music	how to build the sequences of blocks they need
	Children will know:		found	how to relate an idea to a piece of music	they need
	how to type capital letters				
	how to explain what the keys that I have				
	learnt about already do				
	how to identify the toolbar and use				
	bold, italic, and underline				
WALT: recognise uses and features of			WALT: know that we can count and	WALT: show how music is made from a	WALT; change a given design.
technology at school (Y2 L1-2)	WALT: make careful choices when	WALT: explain that each sprite has its own	compare using tally charts. (Y2 L1)	series of notes	
	changing text	instructions			Activities: During this lesson, learners
Activities:			Activities: During this lesson learners will	Activities: In this lesson, learners will	will look at an existing quiz design and
Learners will identify devices that are	Activities: In this lesson, learners will	Activities: During this lesson learners will	begin to understand the importance of	develop their understanding of music.	think about how this can be realised
computers and consider how IT can help	begin to understand when it is best to	be taught how to add and delete sprites in	organising data effectively for counting	They will use a computer to create and	
	change the look of their text and which	ScratchJr. They will discover that each	and comparing. They will create their own	refine musical patterns.	within the ScratchJr app. They will
them both at school and beyond. They	tool will achieve the most appropriate	-	tally charts to organise data, and represent		choose backgrounds and characters
will identify examples of IT and be able to	outcome. The learners will begin to use	sprite has its own programming area, and	the tally count as a total. Finally, they will	Children will know:	for their own quiz projects. Learners
explain the purpose of different examples	their mouse cursor to select text to	learn how to add programming blocks to	answer questions comparing totals in tally		will modify a given design sheet and
of IT in the school setting.	enable them to make more efficient	give instructions to each of the sprites.	charts using vocabulary such as 'more	that music is a sequence of notes	create their own quiz questions in
Children will know:	changes. They will explore the different	Children will know:	than' and 'less than'.		ScratchJr.
	fonts available to them and change the			how to use a computer to create a	
examples of different types of computers	font for their lost toy poster.	that a project can include more than one	Children will know:	musical pattern using three notes	Children will know:
and that it is part of a wide range of IT	Children will know:	sprite	how to record data in a tally chart		how to choose backgrounds for the
what school IT is used for					design
some IT can be used in more than one	how to select a word by double-clicking	how to delete a sprite	how to represent a tally count as a total	how to refine their musical pattern on a	how to choose characters for the
				computer	
way.	how to select all the text by clicking and	how to add blocks to each structs	they can compare totals in a tally chart		design
	dragging	how to add blocks to each sprite			
	how to change the font				
	I now to change the tont				

	WALT: identify technology beyond school and	WALT: explain why I used the tools that I	WALT design the parts of a project	WALT: know that objects can be		WALT: create a program using my
	it can help us. (Y2 L3-4)	chose		represented as pictures and to create a	WALT: create music for a purpose	own design
			Activities: During this lesson learners will	pictogram. (Y2 L2-3)		
	Activities: Learners will begin to explore	Activities: In this lesson, learners will	choose appropriate backgrounds and		Activities: In this lesson, learners will	Activities: During this lesson, learners
	IT in environments beyond school,	begin to justify their use of certain tools	sprites for a 'Space race' project. They will	Activities: During this lesson learners will	choose an animal and create a piece of	will create their own quiz question
	including home and familiar places such	when changing text. The learners will	decide how each sprite will move, and	become familiar with the term 'pictogram'.	music using the animal as inspiration.	designs including their own choices of
	as shops. They will talk about the uses of	decide whether the changes that they	create an algorithm based on the blocks	They will create pictograms manually and	They will think about their animal	question, artwork, and algorithms.
	IT in these environments and be able to	have made have improved their writing and will begin to use 'undo' to remove	available in ScratchJr that reflects this.		moving and create a rhythm pattern	They will increase the number of blocks used within their sequences to
	explain that IT is used in many	changes. They will begin to consolidate		then progress to creating them using a	from that. Once they have defined a	create more complex programs.
	workplaces. Learners will explore the	their ability to select text using the	Children will know:	computer. Learners will begin to	rhythm, they will create a musical pattern (melody) to go with it.	create more complex programs.
	benefits of using IT in the wider world.	cursor, through double-clicking and	how to choose appropriate artwork for	understand the advantages of using	pattern (melody) to go with it.	Children will know:
	They will focus on the use of IT in a shop	clicking and dragging. The learners will	their project	computers rather than manual methods to	Children will know:	
	and how devices can work together.	be able to explain what tool from the		create pictograms and use this to answer	children win know.	how to choose the images for my own
	Learners will sort activities based on	toolbar they have used to change their		simple questions. They will collect data to	how to describe an animal using sounds	design
	whether they use IT or not and will be	writing.	how each sprite will move	create a tally chart and use this to make a	now to describe an animal using sounds	uesign
	able to say why we use IT.			pictogram on a computer. Learners will		
		Children will know:	how to create an algorithm for each sprite	explain what their finished pictogram	how to create a rhythm pattern	how to create an algorithm
	Children will know:	what tool to use to change the text		shows by writing a range of statements to		
	common types technology			describe this.	how to save their work	how to build sequences of blocks to
		if the changes they have made have				match my design
		improved their writing		Children will know:		
	how IT devices work together					
		how to use 'undo' to remove changes		How to enter data and use pictograms to		
	common uses of IT			answer simple questions		
ß				How to use a tally chart to create a		
				pictogram		
Lesson						
Ľ				explain what a pictogram shows		
	WALT: explain how to use information	WALT: compare writing on a computer	WALT: To use my algorithm to create a	WALT: compare group of objects by	WALT: review and refine our computer	WALT: decide how a project can be
	technology safely and that choices can be	with writing on paper	program	attributes and recognise that people can	work	improved
	made.			be described by attributes.		
			Activities: During this lesson learners will		Activities: In this lesson, learners will	Activities: During this lesson, learners
	Activities: Learners will consider how they	make comparisons between using a		Activities: During this lesson learners will	retrieve and review their work. They will	
	use different forms of information	computer for writing and writing on	lesson to create their projects on-screen in	think about ways in which objects can be	spend time making improvements and	designs. They will think about how
	technology safely, in a range of different	paper. The learners will discuss how the	ScratchJr. They will use their project design,	grouped by attribute. They will then tally	then share their work with the class.	they could improve their designs by
	environments. They will list different uses	two methods are the same and different,	including algorithms created in the	objects using a common attribute and		adding additional features. They will
	of IT and talk about the different rules	and think of examples to explain this.	previous lesson, to make programs for each of their rocket sprites. They will test	present the data in the form of a	Children will know:	modify their designs and implement
	that might be associated with using	They will demonstrate making changes to	whether their algorithms are effective	pictogram. Learners will answer questions	how to roopon their work	the changes on their devices. Learners will find and correct errors in programs
	them. Learners will then say how rules	writing using a computer to compare the	when their programs are run.	based on their pictograms using mathematical vocabulary such as 'more	how to reopen their work	(debug) and discuss whether they
	can help keep them safe when using IT.			than'/'less than' and 'most'/'least'.		debugged errors in their own projects.
	Learners will think about the choices that	two methods. Finally, the learners will	Children will know:	Learners will understand that people can	how to explain how they made their	
	are made when using information	begin to explain which they liked best,	how to select sprites that match their	be described by attributes. They will	work better	Children will know:
	technology, and the responsibility	and think about which method would be	design	practise using attributes to describe		
	associated with those choices. They will	the best method to use in different	400.01	images of people and the other learners in	how to describe how music makes them	how to compare a project to their own
	use IT in different types of activities and	situations.	how to add programming blocks based on	the class. The learners will collect data	feel	design
	explain that sometimes they will need to	Children will know:	how to add programming blocks based on	needed to organise people using attributes		B
	use IT in different ways.		my algorithm	and create a pictogram to show this		how to improve a project by addice
		how to write a message on a computer		pictorially. Finally, learners will draw		how to improve a project by adding
	Children will know:	and on paper	how to test the programs they have	conclusions from their pictograms and		features.
n 6			created and debug if necessary.	share their findings.		how to debug
Lesson	rules for using IT and how these can keep	the difference between using a				
Le	them safe.	computer with using a pencil and paper		Children will know:		
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text.keys to input text into a computer.use to input a set of commands to create a programme.be compared with one another to answer questions.make people feel emotions – this music can be created digitally on a device.run a program. This could be the character or pressing the flag.How to use a mouse to move the cursor, open a file and create a picture.That you can use the shift key to change the output of the key press. They will use this to add punctuation such as question marks and exclamation marks.In order to run a program I need to use a start block such as pressing the character or pressing the green flag.Data can be presented on a computer in a variety of forms including pictograms, block diagram and tally charts.How to create pieces of music with a clear rhythm pattern and tempo.Different blocks can be used different purposes. These oc move at one time.Data can be shared, and other data cannot. It is important that we ask permission before sharing informationHow to review their work and describe how it makes them feel.Different blocks.Different blocks.<		1					
Image: Second		the responsibility associated with these.			'most/least' questions about an attribute		
Children will know:		the need to use IT in different ways.			how to create a pictogram and draw		
Activitie: During this leason learners will understand that the arc ofter ways to presend dat the an use gatify charts and pictograms. They will cove there is a stock dagram on thir drave. Image: the presend data the an use gatify charts and pictograms. They will cove there is a stock dagram on their drave. Image: the presend data the presend data the presend data the stock dagram on their drave. Image: the presend data the presend data the presend data the presend data data the presend data data the presend data data the presend data the presend data the presend data the presend data data the presend data the presented on a computer in present the or present the or present the or present the data data the present data the data data data the data data the data data the data da					Year 2 Extension WALT: to use a computer program to		
Image: Note: N					Activities: During this lesson learners will understand that there are other ways to present data than using tally charts and pictograms. They will use a pre-made tally chart to create a block diagram on their device. Learners will then share their data with a partner and discuss their findings. They will consider whether it is always OK to share data and when it is not OK. They will know that it is alright to say no if someone asks for their data, and how to report their concerns. Children will know: how to interpret what they have found		
Image: Now to use a keyboard to create and edit text.How to use letter, number and Space keys to input text into a computer.An algorithm is a set of instructions that we us to input a set of commands to create a programme.Groups of objects can be counted and then be compared with one another to answer questions.Music is created by humans and can make people feel emotions – this music can be created digitally on a device.A sequence needs to have a run a program. This could be the dracter or pressing the fag.How to use a mouse to move the cursor, open a file and create a picture.That you can use the shift key to change the output of the key press. They will use this to add punctuation such as question marks and exclamation marks.In order to run a program I need to use a start block such as pressing the character or pressing the green flag.Data can be presented on a computer in a variety of forms including pictograms, block diagram and tally charts.How to review their work and describe move at one time.Different burpose adit is important that we ask permission before sharing information about others.A sequence needs to have a run a program. This could be the character or pressing the dracter or pressing the dracter or pressing the green flag.IT can be used for lots of different purposes and it is important to choose the right piecesA program can allow multiple sprites to move at one time.That some data can be shared, and other data cannot. It is important that we ask permission before sharing information about others.A sequence can be improved changed by adding or removed changed by adding or removed		Children will know:	Children will know:	Children will know:	should not be shared.	Children will know:	Children will know:
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Includes things such as computers, phones, tablets, printers, digital cameras, smart speakers, Beebots or games consoles.The appearance of text can be changed, including the size and font.A program can allow multiple sprites to move at one time.How to review their work and describe how it makes them feel.movement blocks, size changed, or speaking blocks.IT can be used for lots of different purposes 		open a file and create a picture.	the output of the key press. They will use this to add punctuation such as	start block such as pressing the character	variety of forms including pictograms,		Different blocks can be used for different purposes. These could be
IT can be used for lots of different purposes and it is important to choose the right pieces about others. changed by adding or remove		includes things such as computers, phones, tablets, printers, digital cameras, smart	The appearance of text can be changed,	A program can allow multiple sprites to	That some data can be shared, and other data cannot. It is important that we ask		movement blocks, size changing blocks or speaking blocks.
		and it is important to choose the right pieces					A sequence can be improved and changed by adding or removing blocks.
We should always follow the rules given to use when using IT so that we can keep ourselves and others safe. Image: Content of the rule of th	Key Knowledge	use when using IT so that we can keep					