# SCHOOL

## Computing Curriculum Year 5 and 6 – Cycle B

#### 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:

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

Vocabulary: By the end of EYFS t words	hey will be able to <i>use the</i>	Outcomes for the end of EYFS:  Children will be able to:
Tablet	Kind	■ Children will use and access a range of technology equipment in the learning environment.
Phone Computer Keyboard Keys Touch screen Code/ coding A range of vocabulary linked to appliances such as tills, calculators, etc. Switch Safe Safety Online Internet Danger	Respect Permission Personal information Swipe Technology App games	<ul> <li>For pieces of equipment that the children are expected to use with regularity such as CD player or tablet, children need to be taught how to turn it on and use it as it is intended.</li> <li>Children will know how to take care of electronic equipment – away from water, not left on the floor et.</li> <li>Children will know that technology is used throughout the whole of our world and should discuss in class time instances of use such as tills, medical equipment, computers.</li> <li>Children will be able to verbalise and remember technology that is in their homes and familiar environments.</li> <li>Role play planning needs to enable pupils to use technology in play activities and observations should assess where they use them and the language and skills they reflect during their self-initiated activities -consider the 'Domestic Role-play' area to have an office, telephone, iPad.</li> <li>Children will know specific uses for computers.</li> <li>Children will know how to swipe on a screen and access an app that they a) self-elect b) are directed to select.</li> <li>Children will know how to access and use independently a range of appropriate apps that support learning in the class.</li> <li>Children will know that there are some very positive uses of computers however sometimes there are scary things that happen when you are on games or on the internet.</li> <li>Children will know that you are responsible for being kind to each other when online.</li> <li>Children will know that would modelling the use of Scratch to do simple coding exercise.</li> <li>Children will have taught children to undertake a simple coding procedure on Scratch to do a simple action.</li> <li>Children need to learn a simple coding sequence and to explain how they completed it</li> </ul>

#### **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:

- 4 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
- 4 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.

### Key stage 2 Pupils should be taught to:

- 4 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- ♣ use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- ♣ use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- 4 understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- . use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- ♣ use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

	Autumn			Spring			Summer					
	Computer system	s and networks –	Creating media	- Introduction to	Programming	B – Selection in	Creating media –	Web page creation	Programming B –	Sensing Movement	Creating media	– 3D modelling
oic	Systems, searching,	communication and	vector	graphics								-
Topic	collab			<del></del>								
	This combines the ye		This unit progresses	students' knowledge	This unit assumes that	learners will have prior	This unit progresses	s students'	This unit presume	s that learners are	This unit progress	es students'
	for 'computer system	•		digital painting and has	experience of program	ming using block-based	knowledge and und		already confident		knowledge and ur	
	from Teach Computi		some links to deskto	p publishing in which	_	atch), understand the	following: digital w		understanding of		creating 3D graph	_
	•	~	·	images. They are now		e' and 'repetition', and ce of using 'selection'.				•		_
	pieces of procedural			that they could use in		0	painting, desktop p		repetition and sele			o undertaking this
	knowledge are taugh	•	desktop publisr	ning documents.			1	o editing, and vector	independently wit	nin programming.	unit, learners sho	
_	to the importance of						drawing.				with 2D graphics a	applications.
Progression	underpinning the res	· · · · · · ·										
ess.	curriculum. It is expe	cted that by the end										
ogr	of year 6 all children	will know and										
P	remember the key kr	nowledge outlined.										
	Laptops, access to in	ternet, iPads, search	Laptops, internet ac		Laptops, internet acce		Laptops, access to i	nternet, iPads,	Laptops, access to	internet, iPads,	Laptops, access to int	
	engines		GoogleDrawings, Mi		slides, visit the Scrat				makecode.microb	it.org, micro:bit	(https://www.tinkerca	ad.com). Learners will
			Publisher/PowerPoir	nt, lesson slides,	(scratch.mit.edu/educators/faq).				will need the following peripherals:		access the resources.	
									A micro USB to US	• • •	signing up for a teach	
									A battery pack		https://www.tinkerca learner accounts to be	
									2 x AAA batteries	per micro:bit (if	website accessed with	
									you are using you	•	https://tinkercad.zen	
S S									rather than those		us/articles/36002623 Classrooms. Please er	
Resources										eck the battery size	online safety policy (c	
eso									— some are AA)		adhered to and avoid	
<u> </u>	Caralla and a sala	tale also also a	Mastan masina masha		Almovithuse if them	daa biran aasaatian	LITAN	P. I.	NAT	to the stable of	names when creating	
<u>a</u> r	Search engine, world		Vector, resize, resha	pe, zoom	Algorithms, if, then, e code, infinite loops	eise, binary question,	HTML, code, hyperl	iinks,	Microbit, input, ou		2D and 3D graphic	cs, resize, rotate,
apn	rank, address bar, we output, processes,	eb crawiers, input,			code, illililite loops				<, =, operand, if, to algorithm,	nen, eise,		
Vocabular	output, processes,								aigoritiiii,			
	Computers are made	Y6 additional	DTP's can be	Y6 additional	Children will know:	Y6 additional	How to draw,	Y6 additional	That a condition can	Y6 additional	If you change the	Y6 additional
	up of input devices,	<u>flashback</u>	structured with	<u>flashback</u>		<u>flashback</u>	modify and	<u>flashback</u>	only be true or false.	<u>flashback</u>	value of a variable,	<u>flashback</u>
	digital devices and		placeholders.				reposition objects.				you cannot access	How to apply
	output devices.	Databases are used	How to add and	When searching a	A loop can be	'And' and 'Or' can		Cells can be	How to create a condition-controlled	How to create a	the previous value	formula in order
		to organise	remove text and	database, you are	programmed to stop after a specific number	be used to specify	How to move	formatted in	loop.	formula for	(cannot undo)	to answer a
	A computer network	information.	images from place	able to refine	of times – this is called a	the criteria	objects between	different		different	If you read a	range of questions.
	is made of multiple		holders.	results by filtering	count-controlled loop.	required in a	layers of the	depending on the	How to create a	operations and	variable, the value	4.000.01101
	devices that pass			records down to	(Scratch)	search.	drawing.	data that needs to	computer	duplicate this over	remains, and their	
	information		How to resize and	particular fields.	How to plan a program			be put into them.	programme that uses 'if' 'when' and	multiple cells.	can only be one	
	between each other.		rotate images, as well as changing		that includes		How to combine		'else' selectors to		variable at any one	
			fonts and applying		appropriate loops to		objects to achieve a		direct the flow of		time.	
	Information can be		effects to text.		produce a given outcome.		desired effect.		the programme		Variables may need	
	shared through				outcome.						to be sued in more	
	mobile networks,				Instructions need to be						than one location.	
<del>S</del> C <del>S</del>	wifi (via wireless				in certain order when creating a count						The name must be unique but the	
hba	access points), a				controlled or infinite						function can be the	
Flashback	network switch and				loop.						same.	
Т	wired connections.									<u> </u>		

WALT: create a program to run on a controllable device

Activities: In this lesson, learners will be introduced to the microbit as an input, process, output device that can be programmed. Learners will familiarise themselves with the device itself and the programming environment, before creating their own programs. They will then flash their programs to the device.

Children will know: how to apply their knowledge of

how to test their program on an emulator

programming to a new environment

how to transfer their program to a controllable device.

**WALT:** use a computer to create and manipulate three-dimensional (3D) digital objects

**Activities:** This lesson introduces learners to the concept of 3D modelling by creating a range of 3D shapes that they select and move. They also examine the shapes from a variety of views within the 3D space.

#### Children will know:

the similarities and differences between 2D and 3D shapes

why we might represent 3D objects on a computer

how to select, move, and delete a digital 3D shape.

that each element added to a vector drawing is an object

Lesson

Children will know:

an 'if... then... else...' statement

how to create a program with different outcomes using selection

**WALT:** plan the features of a web page

Activities: Learners will look at the different layout features available in Google Sites and plan their own web page on paper.

the common features of a web page

media to include on their page

how to design a web page layout that

WALT: know that selection can control the flow of a program

Activities: In this lesson, learners will explore how if, then, else statements are used to direct the flow of a program. They will initially relate if, then, else statements to real-world situations, before creating programs in MakeCode. They will apply their knowledge of if, then, else statements to create a program that features selection influenced by a random number to create a micro:bit fortune teller project.

# Children will know:

examples of conditions in the real world

WALT: compare working digitally with 2D and 3D graphics

Activities: This lesson examines the similarities and differences between working digitally with 2D and 3D graphics. Learners initially discuss the similarities and differences they have identified so far, then move on to combine 3D shapes, including lifting the 3D object, to produce a house. Learners then colour their 3D shapes, followed by adding further shapes and undertaking further reflection on the similarities and differences between working digitally with 2D and 3D graphics.

Children will know:

		I	I	I	I	I
	how to make use of a web search to find	how to move, resize, and rotate objects I			how to use a variable in an if, then,	how graphical objects can be
	specific information	have duplicated			else statement to select the flow of a	modified
	how to refine a web search				program	
	Thow to refine a web search					how to resize a 3D object
	the role of web crawlers in creating an index				how to determine the flow of a	
					program using selection	how to change the colour of a 3D
	how a search term is related to the search				program using selection	
	engine's index (Y6)					object
	WALT: explain how search results are ranked	WALT: use tools to achieve a desired	<b>WALT:</b> know how selection directs the flow of a	<b>WALT:</b> consider the ownership and use	WALT: update a variable with a user	WALT: construct a digital 3D model
	and why the order is important	effect	program	of images (copyright)	input	of a physical object
			Activities: In this lesson, learners consider how		·	
	Activities: Learners take part in an	Activities: During this lesson learners	the 'if then else' structure can be used to	Activities: During this lesson learners	Activities: In this lesson, learners will	Activities: During this lesson,
	unplugged activity to find out about how	will continue to increase the complexity	identify two responses to a binary question (one	_	·	
	a webpage's content can influence where	of their vector drawings by using the	with a 'yes or no' answer). They identify that the answer to the question is the 'condition', and	will become familiar with the terms	initially use the buttons to change	learners will produce a 3D model of
	it is ranked in search results. In groups,	zoom tool to help them add detail. They	use algorithms with a branching structure to	'fair use' and 'copyright'. They will gain	the value of a variable using	a physical object, which will
	learners create paper-based webpages	will begin to understand how grids and	represent the actions that will be carried out if	an understanding of why they should	selection. They will then develop	contain a number of different 3D
	on a topic that they are familiar with.	resize handles can be used to improve	the condition is true or false. They learn how	only use copyright-free images and will	their programs to update the	objects. 3D objects will need to be
	· ·	consistency in their drawings and use	questions can be asked in Scratch, and how the	find appropriate images to use in their	variable by moving their micro:bit	rotated and placed into position in
	They then discover how their webpages	tools to modify objects, creating	answer, supplied by the user, is used in the	work from suggested sources.	using the accelerometer to sense	relation to other 3D objects.
	would rank when searching for keywords	different effects.	condition to control the outcomes. They use an		motion. Finally, they will learn that a	
	relating to their content.		algorithm to design a program that uses	Children will know:	variable can be displayed after it is	Children will know:
		Children will know:	selection to direct the flow of the program		· ·	
	Activities: Learners take part in an	how to use the zoom tool to help me	based on the answer provided. They implement	why they should use copyright-free	updated or in response to an input.	how to rotate a 3D object
	unplugged activity to find out about how	add detail to my drawings	their algorithm as a program and test whether	images		
	a webpage's content can influence where	add detail to my drawings	both outcomes can be achieved.		Children will know:	how to position 3D objects in
	it is ranked in search results. In groups,	how alignment grids and resize handles	Children will know:	how to find copyright-free images	how to use a condition to change a	relation to each other
	learners create paper-based webpages	can be used to improve consistency	that program flow can branch according to a		variable	
	on a topic that they are familiar with.	can be used to improve consistency	condition	what is meant by the term 'fair use'		how to select and duplicate
	·	how to modify objects to create	Condition	·	how to experiment with different	multiple 3D objects
	They then discover how their webpages	different effects	how to design the flow of a program which		physical inputs	
	would rank when searching for keywords	different effects	contains 'if then else'		physical inputs	
	relating to their content. Learners explore				that if a sead a scient attack to the	
	how someone performing a web search		that a condition can direct		that if you read a variable, the value	
	can influence the results that are				remains	
	returned, and how content creators can					
	optimise their sites for searching. They					
	also explore some of the limitations of					
	searching and discuss what cannot be					
	searched.					
	Children will know:					
	Cinidicii wiii kilow.					
	that a search engine uses criteria to rank					
	results					
	some of the ways that search results can be					
3	influenced, including how they make money					
Lesson	the limitations of search angines					
Les	the limitations of search engines					
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	

	WALT: know the importance of internet addresses and how data is transferred across	<b>WALT:</b> recognise that vector drawings consist of layers	WALT: design a program which uses selection	<b>WALT:</b> recognise the need to preview pages	<b>WALT:</b> use a conditional statement to compare a variable to a value	<b>WALT:</b> identify that physical objects can be broken down into a
Lesson 4	Activities: Explore different ways that addresses are written. Children to explore and find IP addresses looking at links between different IP addresses. Introduce the idea that parts of a computer system are not always in the same place or country. Instead, those parts of a system must transfer information using the internet. This lesson builds on the introduction to the internet in the Year 4 'What is the internet?' unit, adding awareness of IP addresses and the rules (protocols) that computers have for communicating with one another.  Children will know:  that a computer uses addresses to access websites on the internet.  data is transferred using agreed methods.  data is transferred over the internet and between networks in packets.  the main parts of a data packet (Y6)	Activities: During this lesson learners will gain an understanding of layers and how they are used in vector drawings. They will learn that each object is built on a new layer and that these layers can be moved forward and backward to create effective vector drawings.  Children will know: that each added object creates a new layer in the drawing  which objects are in the front layer or in the back layer of a drawing  how to change the order of layers in a vector drawing	Activities: In this lesson, learners will be provided with a task: to use selection to control the outcomes in an interactive quiz. They will outline the requirements of the task and use an algorithm to show how they will use selection in the quiz to control the outcomes based on the answer given. Learners will complete their designs by using storyboards to identify the questions that will be asked, and the outcomes for both correct and incorrect answers. To demonstrate their understanding of how they are using selection to control the flow of the program, learners will identify which outcomes will be selected based on given responses.  Children will know: how to outline a given task how to use a design format to outline my project the outcome of user input in an algorithm	Activities: Today learners will revise how to create their own web page in Google Sites. Using their plan from previous lessons, learners will create their own web page/home page. They will preview their web page as it will appear on different devices and suggest or make edits to improve the user experience on each device.  Children will know:  how to add content to their own web page how to preview what their web page looks like  how to evaluate what their web page looks like on different devices and suggest/make edits.	Activities: In this lesson, learners will initially work at code level by applying their knowledge from the previous lesson to make their micro:bit perform the function of a compass. They will then design a program which will enable the micro:bit to be used as a navigational device. To code this, they will adapt the code they completed to make the compass.  Children will know: the importance of the order of conditions in else, if statements  how to use an operand (e.g. <>=) in an if, then statement  how to modify a program to achieve a different outcome	collection of 3D shapes  Activities: During this lesson, learners will produce a 3D model of a pencil holder desk tidy. The 3D model will contain a number of 3D objects that are of specific dimensions and use other 3D objects as placeholders to create holes with them.  Children will know: the 3D shapes needed to create a model of a real-world object  how to create digital 3D objects of an appropriate size  how to group a digital 3D shape and a placeholder to create a hole in an object
	WALT: how sharing information online can help people work together and evaluate	WALT: group objects to make them easier to work with	WALT: create a program which uses selection	WALT: use navigation paths	<b>WALT:</b> design a project that uses inputs and outputs on a controllable	WALT: design a digital model by combining 3D objects
n 5	different ways of doing this.  Activities: In this lesson, learners will consider how people can work together when they are not in the same location. They will discuss ways of working and start a collaborative online project. Learners will reflect on how they worked together and how their working together might be improved. Learners will work together on an unplugged activity and use that experience to develop their own ideas of good collective working practices.	Activities: During this lesson learners will be taught how to duplicate multiple objects. They will learn how to group objects to make them easier to work with, how to copy and paste these images, and then make simple alterations.  Children will know: how to copy part of a drawing by duplicating several objects  how to group to create a single object	Activities: In this lesson, learners will use the Scratch programming environment to implement the first section of their algorithm as a program. They will run the first section of their program to test whether they have correctly used selection to control the outcomes, and debug their program if required. They will then continue implementing their algorithm as a program. Once completed, they will consider the value of sharing their program with others so that they can receive feedback. Learners conclude the lesson by	Activities: During this lesson learners will begin to appreciate the need to plan the structure of a website carefully. They will plan their website, paying attention to the navigation paths (the way that pages are linked together). They will then create multiple web pages for their site and use hyperlinks to link them together as detailed in their planning.  Children will know:	Activities: In this lesson, learners will be working at the design level. They will pick out features of a step counter, a piece of technology with which they are likely to be familiar. They will then relate those features to the sensors on a micro:bit. Having seen a simulated example of a micro:bit step counter, learners will pick out features which they will be	Activities: During this lesson, learners will resize and enhance their 3D model of a pencil holder desk tidy. Learners will also plan their own 3D model of a photo frame, which will be developed during the next lesson.  Children will know: how to plan a 3D model
Lesson	Children will know:  how to access shared files of different media	Thow to group to create a single object	using another learner's quiz and providing feedback on it.	what a navigation path is	able to include in their design. In the main activity, learners will design the	which 3D objects I need to construct my model

to create the lists section of my program working together on the internet could be solicil or opinate.  WALT: evaluate my vector drawing method of cellule communication. Activities: In this issue, learners will despon the understanding of the transition, there will very will conjoin internet based communication, there will expend internet based communication in more detail, in the could be another of communication and the methods of communication in the relation of the particular in more detail, in internet count general proposed. Learners will use information product and their own grider based communication. They will explore the complete the production of the completed program and described program and ordinates and production of the pro						
of the extrement.  If the extrement of working together on the intercent cause is public or private.  WALT: recognise and evaluate different methods of communication.  Activities: In this lesson, learners will deepen their undestanding of the term communication. They will explore its control of communication in more electric finally, they will evaluate with the extrement communication in more electric finally, they will evaluate with the store of communication in more electric finally, they will evaluate with the store of communication. They will explore its least alternatives to extreme communication. They will explore its least alternatives to explore the store of the store of communication in more electric finally, they will evaluate within the following and their own prior its working of the store of communication. They will explore its least alternatives to explore the store of communication in more electric finally, they will evaluate within the final store of the store of communication. They will explore its least alternatives to explore the store of communication in more electric finally, they will evaluate within the final store of the store of communication in more electric finally, they will evaluate within the finally explored intercent communication. They will explore its least alternatives to explore the store of communication in more electric finally, they will evaluate within the final store of the store of communication in more electric finally, they will evaluate within the finally they will evaluate within the final store of the store of communication in more electric finally, they will evaluate within the final store of the store of communication in more electric finally, they will evaluate within the final store of the store of communication in more electric finally, they will evaluate within the final store of the store of communication in more electric finally, they will evaluate within the final store of the store of communication in more electric finally, they will evaluate within the f			Children will know:	why navigation paths are useful	algorithm for their step counter	
different ways of working together online working together online working together on the internet could be public or private.  WAIT: recognose and evaluate finance.  Activities: In this lesson, (earners will endow to status my pragram with others which or full consummatation.  Activities: In this lesson, (earners will endow to the term devaluate which methods of communication. They will be endoughed to the term because the methods of communication in more detail, in financial to the three will know to status the will be presented in the methods of communication. They will be endoughed to the term because the methods of communication in more detail, in financial to the term of internet communication. They will be the communication in more detail, in financial to the term of internet communication in more detail, in financial to the complete of provide and their own prior knowledge and their own websites that they know are already to content owned by other project. When the prior their project is understand the prior their project in the season of their project		further develop my vector drawing	<ul> <li>how to implement my algorithm</li> </ul>		project. Finally, they will connect the	how to modify multiple 3D objects
Pow to test my gragam with others     working content or the internet could be public or private.  WALT recoptise and evaluate different methods of communication. They will conduct methods to communication. They will explore its based communication, then they will conduct which methods of communication. They will explore its based communication in the communication in the communication in the communication. They will be conduct which methods of communication in the communication in the communication in the communication in the communication. They will be conduct which methods of communication in the commun	over the internet.		to create the first section of my	make multiple web pages and link	battery pack to their micro:bit to set	
* Now to test my program with others program and evaluate different methods of online communication.  Activities: In this lesson, learners will depen the toth of communication, then they will condict internet shaded communication, then will be controlled in more detail, finally, they will condict internet shaded communication in more detail, finally, they will conduct my program and evaluate my program and evaluate program and evaluate my program and evaluate	different ways of working together online		program	them using hyperlinks	it up as a portable device.	
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Search engines follow specific rules in order How to draw, modify and reposition How to select, modify and reposition How	Search engines follow specific rules in order		i nat a condition can only be true or false.	Websites are created using HTML code.		How to select, modify and rotate 3d
to rank search results by relevance. objects. objects using a CAD tool.	to rank search results by relevance.	objects.				objects using a CAD tool.

		How to create a condition-controlled loop.	A navigation path is a link to another	If you change the value of a	
Search engines can give higher priority to	How to move objects between layers of		webpage within a website.	variable, you cannot access the	How to use place holders to create
certain websites that pay them (advertising)	the drawing.	How to create a computer programme that uses 'if' 'when' and 'else' selectors to direct the		previous value (cannot undo)	holes within 3D objects.
this is how they make their money and can be a drawback of the sites		flow of the programme	How to create and build a multipage		
be a drawback of the sites	How to combine objects to achieve a		website with clear navigation paths and	If you read a variable, the value	How to combine multiple objects to
That a computer system is made up of	desired effect.		hyperlinks.	remains, and their can only be one	create a design.
inputs, processes and outputs. They can				variable at any one time.	
communicate between devices.				,	
				Variables may need to be sued in more	
Data is transferred in packets over networks				than one location. The name must be	
in which each device has a unique address				unique but the function can be the	
(IP address)				same.	
We can access shared information online					
and we can use this to collaborate and					
communicate.					