



Computing Curriculum

At Hady Primary School, the children are provided with the opportunity to develop their creativity through the use of a wide range of programs and applications that make deep links with mathematics, science and design and technology. Pupils will become digitally literate as they explore the world of programming and develop their understanding of fundamental principles including algorithms, data representation, logic and abstraction.

- By the time our children leave Hady, they will:
- Be responsible, confident and creative users of technology, who apply computational thinking beyond the computing curriculum.
- Be digitally literate and are active participants in a digital world.
- Know how to stay safe whilst using technology and on the internet, minimising risk to themselves and others.
- Understand and follow our agreed E-Safety rules, and know who to contact if they have concerns, including the use of report buttons.
- Have the ability to ask and answer questions
- Use search options effectively whilst understanding the need to evaluate the relevance of content.
- The children will be respectful, responsible and competent digital citizens; they will have the knowledge to support themselves and others online.

Computing-Long Term Plan – 2022/2023 Academic Year

IT – Information Technology

CS – Computer Science

DL – Digital Literacy

EYFS

Throughout the day children have access to a range of technology, for both focussed and self-chosen learning. Children will explore these continuously throughout the year. Children will use ipads for games / activities linked to the topic or area specific. The camera to take photos with, Remote control toys – cars, Battery operated toys – Beebots (when learning a about instructions or direction) Interactive white boards to enhance learning through games and songs or during lessons. Google Earth / phonics bug / drawing, sorting, information gathering/ sound buttons are all examples of when computing is used in EYFS. Children can listen to a pre-recorded message on clip boards and talking tins. - exploring old typewriters / computers / mechanical toys, telephones. Within the Role play area many items are used to support how we use computing/technology within the home.

KEY SKILLS - DL – How will EYFS pupils become digitally literate?

- Use different digital devices.
- Recognise that you can access content on a digital device.
- Use a mouse, touchscreen or appropriate access device to target and select options on screen.
- Recognise a selection of digital devices.
- Recognise the basic parts of a computer, e.g. mouse, screen, keyboard.

EYFS Goal







How does Computing fit into this>

Personal, Social and Emotional Development -Managing Self

E-Safety;

<p>- Be confident to try new activities and show independence, resilience and perseverance in the face of challenge; - Explain the reasons for rules, know right from wrong and try to behave accordingly.</p>	<ul style="list-style-type: none"> - Talk about good & bad choices in real life e.g. taking turns, saying kind things, helping others, telling an adult if something upsets you. - Play appropriate games on the Internet. - Talk about good and bad choices when using websites – being kind, telling a grown up if something upsets us & keeping ourselves safe by keeping information private. <p>Technology in our Lives;</p> <ul style="list-style-type: none"> - Recognise purposes for using technology in school and at home. - Understand that things they create belong to them and can be shared with others using technology. - Recognise that they can use the Internet to play and learn
<p>Expressive Art and Design – Creating with Materials - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function;</p>	<p>Information Technology</p> <ul style="list-style-type: none"> - Use different digital devices. - Recognise that you can access content on a digital device. - Use a mouse, touchscreen or appropriate access device to target and select options on screen. - Recognise a selection of digital devices. - Recognise the basic parts of a computer, e.g. mouse, screen, keyboard. - create music using a digital device - use a digital device to paint
<p>Communication and Language – Listening, Attention and Understanding - Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions; - Make comments about what they have heard and ask questions to clarify their understanding;</p>	<p>Programming</p> <ul style="list-style-type: none"> - Help adults operate equipment around the school. - Use simple software to make things happen - Press buttons on a floor robot and talk about the movements – use of coda pillar - Explore options and make choices with toys, software and websites

Progression plan	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Title	Marvellous me	Once upon a Time	Animals	Mighty Machines	Let's go outside	All around the world

						
Nursery/ Reception	IT	CS-Toy	IT-Music	CS- Unplugged	IT-Digital art	IT- Unplugged
	Technology all around us	Codapillar	Music creation	Barefoot Computing	Tux painting	Barefoot Computing

EYFS	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	CS-Toy	IT-Music	CS-Unplugged	IT-Digital art	IT-Unplugged
	Technology around us https://www.ilearn2.co.uk/computerdiscoveryfree.html http://code-it.co.uk/wp-content/uploads/2015/05/bankplaf	Codeapillar.. https://www.somerset.org.uk/sites/edtech/Primary%20Computing/NWP%20free%20samples/Y1%20Programming%206%20Core%20Codapillar.pdf	Music creation https://www.ilearn2.co.uk/freeyear1musiccreation.html	Barefoot Computing - Jam sandwich http://swaygrantham.co.uk/wp-content/uploads/2016/09/JamSandwichAlgorithm.pdf https://www.barefootcomputing.org/docs/default-source/at-home/pizza_party_activity.pdf?sfvrsn=154d91ea_2	Tux paint https://www.i2e.com/jit5 tuxpaint.org	Barefoot Computing Lego Building Crazy Characters Head, Shoulder, Knees and Toes

[n.pdf](#)

<http://code-it.co.uk/wp-content/uploads/2015/05/supermarketplan.pdf>

<http://www.crickweb.co.uk/Early-Years.html>

<https://www.nurseryworld.co.uk/News/article/ict-in-role-play-check-it-out>

[Boats Ahoy](#)

[Busy Bodies](#)

Key Stage One

Key Stage One	National Curriculum Objectives
	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> • understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instruction • create and debug simple programs • use logical reasoning to predict the behaviour of simple program • 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.

KEY SKILLS - DL – Key Stage One	
Year One	Year Two
<ul style="list-style-type: none"> - Recognise a range of digital devices. - Select a digital device to fulfil a specific task, e.g. to take a photo. - Name a range of digital devices, e.g. laptop, phone, games console. - Log on to the school computer /unlock the school tablet with support. - Identify the basic parts of a computer, e.g. mouse, keyboard, screen. - Use a suitable access device (mouse, keyboard, touchscreen, switch) to access and control an activity on a computer. - Open key applications independently. - Save and open files with support. - Add an image to a document from a given folder/source with support. 	<ul style="list-style-type: none"> - Recognise what a computer is (input > process > output). - Recognise that a range of digital devices contain computers, e.g. phone, games console, smart speaker. - Explain what the basic parts of a computer are used for. - Identify and use input devices, e.g. mouse, keyboard; and output devices, e.g. speakers, screen. - Open key applications independently. - Save and open files to/from a given folder. - Add an image to a document from a given folder/source. - Resize an image in a document. - Highlight text and use the arrow keys. - Capture media independently (e.g. take photos, record audio).

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	IT	CS	IT	CS	IT
Yr 1 and 2 A	<p>Technology Around Us</p> <p>Logging on</p> <p>LO:</p> <p>To Identify technology</p> <p>To identify a computer and its main parts</p> <p>To use a mouse in different ways</p> <p>To use a keyboard to type on a computer</p> <p>To use the keyboard to edit texts</p> <p>To create rules for using technology</p>	<p>Creating Media</p> <p>Digital Painting</p> <p>LO:</p> <p>To describe what different freehand tools do</p> <p>To use the shape tool and the line tools</p> <p>To make careful choices when painting a digital picture</p> <p>To explain why I chose the tools I used</p> <p>To use a computer on my own to paint a picture</p>	<p>Programming</p> <p>Moving a robot</p> <p>LO:</p> <p>To explain what a given command will do</p> <p>To act out a given word</p> <p>To combine 'forwards' and 'backwards' commands to make a sequence</p> <p>To describe a series of instructions as a sequence</p> <p>To explain what happens when we change the</p>	<p>Creating Media</p> <p>Digital Writing</p> <p>LO:</p> <p>To use a computer to write</p> <p>To add and remove text on a computer</p> <p>To identify that the look of text can be changed on a computer</p> <p>To make careful choices when changing text</p> <p>To explain why I used the tools that I chose</p> <p>To compare typing on a</p>	<p>Introduction to sequencing and animation – Programming</p> <p>Sequencing</p> <p>LO:</p> <p>To use a map to give commands (introduction to algorithms)</p> <p>To begin to use blocks to create a sequence</p> <p>To develop understanding of sequencing by programming (paired programming)</p> <p>To use move, turn and pick blocks in a sequence</p>	<p>Data and information</p> <p>Grouping Data</p> <p>LO:</p> <p>To label objects</p> <p>To identify that objects can be counted</p> <p>To describe objects in different ways</p> <p>TO count objects with the same properties</p> <p>To compare groups of objects</p> <p>To answer</p>

	<p>Curriculum links:</p> <p>https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-technology-around-us</p> <p>https://www.abcya.com/games/find the tech</p> <p>Hello Ruby keyboard https://www.helloruby.com/play/12</p> <p>Paper computer http://www.helloruby.com/play/29</p> <p>Extension</p> <p>https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us</p>	<p>To compare painting a picture on a computer and on paper</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-painting</p> <p>https://www.j2e.com/jit5 Y1)</p> <p>Tuxpaint.org (Y2)</p>	<p>order of instructions</p> <p>To use logical reasoning to predict the outcome of a program</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot</p> <p>Plus Lesson 1, 2 and 3</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-a-robot-algorithms</p> <p>Equipment: Beebots</p>	<p>computer to writing on paper</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-writing</p>	<p>To debug programs I have created</p> <p>Curriculum Links:</p> <p>https://studio.code.org/s/coursebook-2022</p>	<p>questions about groups of objects</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-1/data-and-information-grouping-data</p>
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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	IT	CS	IT	CS	IT
Yr 1 and 2 B	<p>Computing Systems and Networks</p> <p>IT Around Us</p> <p>LO:</p> <p>To recognise the uses and features of information technology</p> <p>To identify the uses of information technology in school</p> <p>To identify information technology beyond school</p> <p>To identify how information technology helps us</p>	<p>Creating Media</p> <p>Digital Music</p> <p>LO:</p> <p>To say how music can make us feel</p> <p>To identify that there are patterns in music</p> <p>To experiment with sound using a computer</p> <p>To use a computer to create a musical pattern</p> <p>To create music for a purpose</p>	<p>Programming</p> <p>Moving a robot</p> <p>LO:</p> <p>To explain what a given command will do</p> <p>To combine four direction commands to make a sequence</p> <p>To describe a series of instructions as a sequence</p> <p>To explain what happens when we change the order of instructions</p>	<p>Digital Photography</p> <p>LO:</p> <p>To use a digital device to take a photograph</p> <p>To make choices when taking a photograph</p> <p>To describe what makes a good photograph</p> <p>To decide how photographs can be improved</p> <p>To use tools to change an image</p>	<p>Programming</p> <p>Unplugged</p> <p>LO:</p> <p>To follow instructions</p> <p>To create a sequence of instructions (algorithm)</p> <p>To understand that the order of instructions is important</p> <p>To break a sequence of moves down into its parts.</p> <p>To decompose a sequence.</p> <p>To say how decomposition</p>	<p>Data and information</p> <p>Pictograms</p> <p>LO:</p> <p>To recognise that we can count and compare objects using tally charts</p> <p>To recognise that objects can be represented as pictures</p> <p>To create a pictogram</p> <p>To select objects by attribute and make comparisons</p>


<p>To explain how to use information technology safely</p> <p>To recognise that choices are made when using information technology</p> <p>Curriculum links:</p> <p>https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us</p>	<p>To review and refine our computer work</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-1/creating-media-making-music</p> <p>https://www.ilearn2.co.uk/freeyear1musiccreation.html</p> <p>https://musiclab.chromeexperiments.com/</p>	<p>To plan a simple program</p> <p>To use logical reasoning to predict the outcome of a program</p> <p>Curriculum Links:</p> <p>Use lessons 4 , 5 , 6 to extend learning</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot</p> <p>Plus Lesson 1, 2 and 3</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-a-robot-algorithms</p> <p>Apps</p> <p>Beebot</p>	<p>To recognise that photos can be changed</p> <p>Curriculum Links:</p> <p>https://pixlr.com/x/</p> <p>https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-photography</p>	<p>is used when creating computer programs like animations or games.</p> <p>Curriculum Links:</p> <p>https://curriculum.co.de.org/hoc/unplugged/4/?fbclid=IwAR2rgsYBNpDD9QScqpV5IXHVF5pBt0YjReqFN-e2b670mhfWBR3ySF-NAo</p> <p>https://www.barefootcomputing.org/resources/dance-move-algorithms</p> <p>https://www.barefootcomputing.org/resources/decomposition-unplugged-activity-ks1</p>	<p>To recognise that people can be described by attributes</p> <p>To explain that we can present information using a computer</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms</p>
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Pupils should be taught to:


- 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 out
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- 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

KEY SKILLS - DL – Key Stage Two

Year Three	Year Four
<ul style="list-style-type: none"> - Describe what a computer is (input > process > output). - Explain the difference between input and output devices on a computer. - Know where to save and open files (e.g. in shared folder). - Save files with appropriate names. - Use a keyboard effectively to type in text. - Use left-, right- and double-click on the mouse. - Add an image to a document from the internet. - Resize and move an image in a document. - Use a search engine to find simple information. - Recognise that school computers are connected with support. 	<ul style="list-style-type: none"> - Recognise that you can organise files using folders. - Explain what a good file name would look like. - Delete and move files. - Use key parts of a keyboard effectively, e.g. shift, arrow keys, delete). - Know how to copy and paste text or images in a document. - Crop an image and apply simple filters. - Use a search engine to find specific information. - Recognise that school computers are connected

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	CS	DL	CS	IT	IT
Yr 3/4 A	<p>Systems and networks</p> <p>Connecting Computers</p> <p>LO:</p> <p>To explain how digital devices function</p> <p>To identify input and output devices</p> <p>To recognise how digital devices can change the way that we work</p> <p>To explain how a computer network can be used to share</p>	<p>Programming- Sequence in music</p> <p>LO:</p> <p>To explore a new programming environment</p> <p>To identify that commands have an outcome</p> <p>To explain that a program has a start</p> <p>To recognise that a sequence of commands can have an order</p>	<p>E-Safety scheme of work.</p> 	<p>Programming Repetition</p> <p>LO:</p> <p>To develop a deeper understanding of sequencing in programming</p> <p>To understand repetition in programming</p> <p>To write an algorithm to produce a given outcome</p> <p>To identify patterns in a sequence</p>	<p>Creating media- Photo Editing</p> <p>LO:</p> <p>To explain that the composition of digital images can be changed</p> <p>To explain that colours can be changed in digital images</p> <p>To explain how cloning can be used in phot editing</p> <p>To explain that images can be combined</p>	<p>Creating media</p> <p>Stop-frame animation</p> <p>LO:</p> <p>To explain that animation is a sequence of drawings or photographs</p> <p>To relate animated movement with a sequence of images</p> <p>To plan an animation</p> <p>To identify the</p>


	<p>information</p> <p>To explore how digital devices can be connected</p> <p>To recognise the physical components of a network</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-connecting-computers</p>	<p>To change the appearance of my project</p> <p>To create a project from a task description</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-2/programming-a-sequence-in-music</p> <p>Start with some tutorials</p> <p>https://scratch.mit.edu/projects/editor/?tutorial=getStarted</p>		<p>To use repetition (loops) in an algorithm</p> <p>To use a count-controlled loop to complete a sequence</p> <p>Curriculum Links:</p> <p>https://studio.code.org/s/dance-2019/lessons/1/level/s/1?fbclid=IwAR1jNZgBZrEjHyfviWFvI9hpQSSkn0IcXmvZ8X38ziehq-JWBjllOnJW2bk</p> <p>Code.org - Dance Party (2019)</p> <p>Extension:</p> <p>https://studio.code.org/s/dance-extras-2019/stage/1/puzzle/1</p>	<p>To combine images for a purpose</p> <p>To evaluate how changes can improve an images</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-2/creating-media-photo-editing</p> <p>https://pixlr.com/x/</p>	<p>need to work consistently and carefully</p> <p>To review and improve an animation</p> <p>To evaluate the impact of adding other media to an animation</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-2/creating-media-animation</p>
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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	World Mental Health Day – 10 th October					
	IT	CS	IT	CS	IT	DL
Yr 3/4 B	<p>Systems and networks</p> <p>The internet</p> <p>LO:</p> <p>To describe how networks physically connect to other computers.</p> <p>To recognise how networked devices make up the internet</p> <p>To outline how websites can be shared via the World Wide Web (WWW)</p> <p>To describe how content can be added and access on the World Wide Web</p>	<p>Programming</p> <p>Events and Actions</p> <p>LO:</p> <p>To explain how a sprite moves in an existing project</p> <p>To create a program to move a sprite in four directions</p> <p>To adapt a program to a new context</p> <p>To develop my program by adding features</p> <p>To identify and fix bugs in a program</p>	<p>Data and Information</p> <p>Branching database</p> <p>LO:</p> <p>To create questions with yes/no answers</p> <p>To identify the attributes needed to collect data about an object</p> <p>To create a branching database</p> <p>To explain why it is helpful for a database to be well structured</p> <p>To plan the structure of a</p>	<p>Programming</p> <p>Repetition</p> <p>LO:</p> <p>To develop the use of count-controlled loops in a different programming environment</p> <p>To explain that in programming there are infinite loops and count-controlled loops</p> <p>To develop a design that includes two or more loops which run at the same time</p> <p>To modify an infinite loop in a given program</p>	<p>Creating media-</p> <p>Desktop publishing</p> <p>LO:</p> <p>To recognise how text and images convey information</p> <p>To recognise that text and layout can be edited</p> <p>To choose appropriate page settings</p> <p>To add content to a desktop publishing publication</p> <p>To consider how different layouts can suit different</p>	<p>E-Safety scheme of work.</p> 

	<p>(WWW)</p> <p>To recognise how the World Wide Web (WWW) is created by people</p> <p>To evaluate the consequences of unreliable content</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-the-internet</p>	<p>To design and create a maze-based challenge</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-2/programming-b-events-and-actions</p> <p>https://studio.code.org/s/coursesec-2020/stage/15/puzzle/1</p>	<p>branching database</p> <p>To independently create an identification tool</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases</p>	<p>To design a project that includes repetition</p> <p>To create a project that includes repetition</p> <p>Curriculum Links:</p> <p>https://scratch.mit.edu/projects/edit/?tutorial=getStarted</p> <p>https://teachcomputing.org/curriculum/key-stage-2/programming-b-repetition-in-games</p> <p>https://projects.raspberrypi.org/en/projects/flower-generator</p>	<p>purposes</p> <p>To consider the benefits of desktop publishing</p> <p>Curriculum Links:</p> <p>https://teachcomputing.org/curriculum/key-stage-2/creating-media-desktop-publishing</p> <p>Comic Creation</p> <p>https://www.ilearn2.co.uk/comiccreationteacherfree.html</p> <p>https://www.makebeliefscomix.com/Comix/</p>	
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Key Stage 2	National Curriculum Objectives
	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> ● 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 out ● use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs ● 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

KEY SKILLS - DL – Key Stage TWO	
Year Five	Year Six
<ul style="list-style-type: none"> - Type using fingers on both hands. - Use common keyboard shortcuts, e.g. ctrl C (copy), ctrl V (paste). - Explain what makes a strong password. - Use folders to organise files. - Know how to mute and unmute audio on a computer or tablet. - Recognise that there is more than one search engine, and they may produce different results. - Use a search engine effectively to find information and images. - Know how to search for an application on a computer/tablet 	<ul style="list-style-type: none"> - Type efficiently using both hands. - Use a range of keyboard shortcuts. - Recognise that different devices may have different operating systems. - Organise files effectively using folders and files names. - Use the advanced search tools when using a search engine to find specific information and images. - Explain the basic function of an operating system. - Recognise common file types and extensions, e.g. jpeg, png, doc, wav.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	CS	IT	CS	IT	DL
Yr 5 and 6 A	<p>Systems and networks</p> <p>Sharing information</p> <p>LO:</p> <p>To explain that computers can be connected together to form systems</p> <p>To recognise the role of computer systems in our lives</p> <p>To identify how to use a search engine</p> <p>To describe how to use a search engine</p>	<p>Programming</p> <p>Selection in physical computing</p> <p>LO:</p> <p>To control a simple circuit connected to a computer</p> <p>To write a program that includes count-controlled loops</p> <p>To explain that a loop can stop when a condition is met</p> <p>To explain that a loop can stop when a</p>	<p>Creating media</p> <p>Flat file databases</p> <p>LO:</p> <p>To use a form to record information</p> <p>To compare paper and computer-based databases</p> <p>To outline how you can answer questions by grouping and then sorting data</p> <p>To explain that tools can be used to select specific data</p> <p>To explain that computer</p>	<p>Programming</p> <p>Sensing (variables): Micro:bits</p> <p>LO:</p> <p>To create a program to run on a controllable device</p> <p>To explain that selection can control the flow of a program</p> <p>To update a variable with a user input</p> <p>To use a conditional</p>	<p>Creating media</p> <p>3D Modelling</p> <p>LO:</p> <p>To recognise that you can work in three dimensions on a computer</p> <p>To identify that digital 3D objects can be modified</p> <p>To recognise that objects can be combined in a 3D model</p> <p>To create a 3D model for a given purpose</p>	<p>E-Safety scheme of work.</p> 

<p>To describe how search engines select results</p> <p>To explain how search results are ranked</p> <p>To recognise why the order of results is important, and to whom</p> <p>Curriculum Links: https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-sharing-information</p>	<p>condition is met</p> <p>To explain that a loop can be used to repeatedly check whether a condition has met</p> <p>To design a physical project that includes selection</p> <p>To create a program that controls a physical computing project</p> <p>Curriculum Links:</p> <p>Programming A – Selection in physical computing (teachcomputing.org)</p> <p>https://hadyprimary.sharepoint.com/sites/hadyprimary/Leadership%20Files/Forms/AllItems.aspx?newTargetListUrl=%2Fsites%2Fhadyprimary%2FLeadership%20Files&</p>	<p>programs can be used to compare data visually</p> <p>To use a real-world database to answer questions</p> <p>Curriculum Links: https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases</p>	<p>statement to compare a variable to a value</p> <p>To design a project that uses inputs and outputs on a controllable device</p> <p>To develop a program to use inputs and outputs on a controllable device</p> <p>Curriculum Links: Programming B – Sensing (teachcomputing.org)</p> <p>Lesson adaptations to work with them emulator at https://makecode.microbit.org/</p> <p>https://computing4schools.com/microbit/</p>	<p>To plan my own 3D model</p> <p>To create my own digital 3D model</p> <p>Curriculum Links: https://teachcomputing.org/curriculum/key-stage-2/creating-media-3d-modelling</p>	
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