



COMPUTING

AT SHALFLEET AND YARMOUTH CHURCH OF ENGLAND PRIMARY SCHOOLS

NATIONAL CURRICULUM STATEMENT

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.

<u>Aims</u>

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

OUR INTENT

By the time our children leave our school, our computing provision aims to have equipped them with the necessary skills to understand and access the modern technological world. They will have developed computational thinking, increased their digitally literacy and thus be prepared for their future work environment.

The Federation of the Church Schools of Shalfleet and Yarmouth

What are we trying to achieve?

c-

How do we implement

What is the impact?





COMPUTING AT THE FEDERATION OF THE CHURCH SCHOOLS OF SHALFLEET AND YARMOUTH



Federation Vision for	Big Ideas Content and Sequencing (Broad, relevant and balanced)
Computing – Intention for	- Computer science – exploring - Create and debug simple programs (KS1) Design, write and debug programs 🔶
Children	algorithms behind programs and that accomplish specific goals (KS2)
By the time our children leave	creating these, moving on to - Use logical reasoning to predict behaviour of simple programs (KS1) Using
our school, our computing	learning how to test and debug these to create logical reasoning to explain how simple algorithms work and detect errors (KS2)
provision aims to have equipped	a working program of their own Use technology safely and respectfully, keeping personal information private and knowing
them with the necessary skills to	 Information technology – learning a variety of where to go for help (KS1) recognising acceptable/unacceptable behaviour and identifying
understand and access the	skills within the realms of IT, these include a number of ways to report issues (KS2)
modern technological world.	word processing, presentation creation, - Use technology purposefully to create, organise, store, manipulate and retrieve digital
They will have developed	spreadsheets, databases and video content (KS1) Select, use and combine a variety of software (including internet services) on
computational thinking,	production. a range of devices (KS2)
increased their digitally literacy	- Digital literacy – investigating how to be safe - Recognise common uses of information technology beyond school (KS1) Understand
and thus be prepared for their	when using computing technology not just computer networks including the internet (KS2)
future work environment.	restricted to computers. Giving children the - Create and debug simple programs (KS1) Use sequence, selection, repetitions, variables,
	tools to protect themselves. inputs and outputs in programs (KS2)

		v	ision for the Federation	Learning Principles in	Computing		
Coherent	Strong Working	High Quality	Valuing All	Challenging,	Opportunities for	Promotes	Local, Mainland
Learning Links	Partnerships:	Outcomes/Deep	Children/Accessible	Engaging and	Memorable	Independence and	and Global:
and Pathways:		Learning:	Learning:	Motivating:	Experiences:	Curiosity:	
Algorithms link	Children will work	Through teaching	All children in our	Children will be	Children will leave	Children will be able	Children will be able
strongly to	together to	the children will	Federation have the	challenged to apply	school remembering	to apply their learned	to develop skills that
mathematics,	evaluate and	have a deep	same opportunities to	their skills across the	the first time they	skills within	allow them to
requiring children	debug their	understanding of	achieve the same end	computing	learned how to use	computing science to	communicate
to apply their	projects, offering	how computing	goals as each other	curriculum to create	computing skills that	develop projects that	effectively across
learning to	ideas and	systems work and	with scaffolding	a range of projects	they will use	they can test with	the technological
sequencing code.	suggestions to	power our lives.	enabling this.	that they can	repeatedly throughout	their own ideas.	landscape of our
	improve them			creatively adapt to	their lifetime.		world.
	further.			truly make their own.			
Links with English Maths	n and 둘 📔	Progress			Support		Ē
Maths: Directional	language, angles,	Projects bas	sed around computing scie	nce skills (computing)	Everyone has access to t	he computing National (Curriculum.
measurement, four	main operations,	will develo	p through the year groups	in the complexity of	Children will be supporte	ed with recapping any ba	asic skill not achieved
sequencing, coordi	nates		algorithms used and supp	ort given.	in previous year groups.		
English: Sentence s	tructure skills within	word Informatio	n technology areas will sho	ow developed skills in	Changes made to compu	uters/devices in order to	enable access
processing		their proj	ects appropriate for their y	ear groups (such as	(background lighting/col	lours or keyboard sizing f	for example)
		spreads	heet formulas being develo	oped in upper KS2)			

PROGRESSION OF SKILLS

- I. Computer Systems and Networks
- 2. Creating Media
- 3. Data and Information
- 4. Programming
- 5. Vocabulary and Resources
- 6. Overview of coverage (Split into EYFS and KS1, LKS2, and UKS2)

COMPUTING	EYFS Link	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
COMPUTER YSTEMS AND IETWORKS	 Knows what a keyboard is Knows how to log in and out Knows how to control a mouse including clicking Have explored different hardware Can take photos using a camera app 	 Identify technology Identify a computer and its main parts Use a mouse in different ways Use a keyboard to type on a computer Use the keyboard to edit text Create rules for using technology responsibly 	 Recognise the uses and features of information technology Identify the uses of information technology in the school Identify information technology beyond school Explain how information technology helps us Explain how to use information technology safely Recognise that choices are made when using information technology 	 Explain how digital devices function Identify input and output devices Recognise how digital devices can change the way we work Explain how a computer network can be used to share information Explore how digital devices can be connected Recognise the physical components of a network 	 Describe how networks physically connect to other networks Recognise how networked devices make up the internet Outline how websites can be shared via the World Wide Web (WWW) Describe how content can be added and accessed on the World Wide Web (WWW) Recognise how the content of the WWW is created by people Evaluate the consequences of unreliable content 	 Explain that computers can be connected together to form systems Recognise the role of computer systems in our lives Identify how to use a search engine Describe how search engines select results Explain how search results are ranked Recognise why the order of results is important, and to whom 	 Explain the importance of internet addresses Recognise how data is transferred across the internet Explain how sharing information online can help people to work together Evaluate different ways of working together online Recognise how we communicate using technology Evaluate different methods of online communication
REATING MEDIA		 Describe what different freehand tools do Use the shape tool and the line tools Make careful choices when painting a digital picture Explain why I chose the tools I used Use a computer on my own to paint a picture Compare painting a picture on a computer and on paper Use a computer to write Add and remove text on a computer Identify that the look of text can be changed on a computer Make careful choices when changing text Explain why I used the tools that I chose Compare to writing on paper 	 Use a digital device to take a photograph Make choices when taking a photograph Describe what makes a good photograph Decide how photographs can be improved Use tools to change an image Recognise that photos can be changed Say how music can make us feel Identify that there are patterns in music Show how music is made from a series of notes Show how music is made from a series of notes Create music for a purpose Review and refine our computer work 	 Explain that animation is a sequence of drawings or photographs Relate animated movement with a sequence of images Plan an animation Identify the need to work consistently and carefully Review and improve an animation Evaluate the impact of adding other media to an animation Recognise how text and images convey information Recognise that text and layout can be edited Choose appropriate page settings Add content to a desktop publishing publication Consider how different layouts can suit different purposes Consider the benefits of desktop publishing 	 Identify that sound can be digitally recorded Use a digital device to record sound Explain that a digital recording is stored as a file Explain that audio can be changed through editing Show that different types of audio can be combined and played together Evaluate editing choices made Explain that digital images can be changed Change the composition of an image Describe how images can be changed for different uses Make good choices when selecting different tools Recognise that not all images are real Evaluate how changes can improve an image 	 Explain what makes a video effective Identify digital devices that can record video Capture video using a range of techniques Create a storyboard Identify that video can be improved through reshooting and editing Consider the impact of the choices made when making and sharing a video Identify that drawing tools can be used to produce different outcomes Create a vector drawing by combining shapes Use tools to achieve a desired effect Recognise that vector drawings consist of layers Group objects to make them easier to work with Evaluate my vector drawing 	 Review an existing website and consider its structure Plan the features of a web page Consider the ownership and use of images (copyright) Recognise the need to preview pages Outline the need for a navigation path Recognise the implications of linking to content owned by other people Use a computer to create and manipulate three-dimensional (3D) digital objects Compare working digitally with 2D and 3D graphics Construct a digital 3D model of a physical object Identify that physical objects can be broken down into a collection of 3D shapes Design a digital model by combining 3D objects Develop and improve a digital 3D model

DATA AND INFORMATION	 Can sort and categorise objects Can sort people into groups Can use yes/no sorting questions Can use a branching database physically Can interpret basic pictograms 	 Label objects Identify that objects can be counted Describe objects in different ways Count objects with the same properties Compare groups of objects Answer questions about groups of objects Answer questions about groups of objects Answer questions about groups of objects Explain that we can present information using a computer Recognise that we can count and compare objects using tally charts Recognise that objects can be represented as pictures Create a pictogram Select objects by attribute and make comparisons 	 Create questions with yes/no answers Identify the object questions which can be used to answer questions Identify the object attributes needed to collect attributes needed to be well structured Explain that attributes needed to answer questions Identify the data needed to answer questions Use collected data to answer questions <l< th=""></l<>
PROGRAMMING	 Can follow instructions Can give instructions Can read simple instructions Can read directional arrows Can give a Bee-bot a simple command Can debug instructions when they go wrong 	 Explain what a given command will do Act out a given word Combine forwards and backwards commands to make a sequence Combine four direction commands to make sequences Plan a simple program Find more than one solution to a problem Choose a command for a given purpose Show that a series of commands can be joined together Identify the effect of changing a value Explain that each sprite has its own instructions Describe a series of instructions as a sequence Explain that a sequence of commands a series of commands a series of Show that a series of changing a value Explain that each sprite has its own instructions Design the parts of a project Use my algorithm to create a program 	 Explore a new programming environment lengthy that commands have an outcome Explain that a program has a start Recognise that a sequence of commands can have an outcome Change the appearance of my project Create a program to move a sprite in four directions Explain how sitting program to a new context Develop my program ba a program Develop my program ba aprogram to a new context Develop my program ba aprogram Develop my program ba aprogram Develop my program ba aprogram Develop my program ba aprogram ba aprogram Develop my program ba aprogram ba aprogram Develop my program ba aprogram ba aprogram Develop my program ba aprogram ba aprogram Design a project that bin includes two or more loops which run at the same time Develop my program ba aprogram base base base base base base base base
Key Vocabulary – See the link below for detailed explanations of the terms <u>https://teachcom</u> <u>puting.org/prima</u> <u>ry-computing- glossary</u>	Device, computer, mouse, click, keyboard, numbers, letters, document, type, spacebar, screen, internet, online, technology, content, text, image, video, audio, media, digital, data, information, personal, online, real life, trust, categories, action, success, failure, repeat, outcome, instructions, approach, control, patterns, input, order, sort, group, <u>pictrogram</u>	Algorithm, Attribute (property), Code, Code snippet, Command, Computer, Data, Debugging Information, Information Technology, Object, Program, Property (attribute), Run (execute), Technology	Algorithm, Attribute (property), Browser, Code, Code snippet, Command, Computer, Computer network, Computer system, Condition, Condition- controlled loop, Count-controlled loop, Data, Data set, Debugging, Decompose, Digital device, Domain name, Execute (run) Hardware, HTML (HyperText Markup Language), Hyperlink, Infinite loop, Information, Input, Input device, Internet, Loop, Loop(condition- controlled), Loop (count-controlled), Loop (infinite), Network, Object, Output, Output device, Procedure, Process, Program, Repetition, Router, Run (execute), Selection, Server, Software, Stored (data), Subroutine, Switch (network switch), URL (Uniform Resource Locator), Variable, Web, Web address, Web browser, Web page, Website, WiFi, WAP (Wireless Access Point) WWW (World Wide Web)
Resources – Including link to Reading		See	ng term plan for the resources for each year group

FEDERATION COVERAGE – EYFS & KSI

COMPUTING LONG TERM PLAN 2022-2023

	AUT 1	AUT 2	SPR 1	SPR 2	SUM 1	SUM 2
EYFS (see sequences for each area in the	(Although 'Technology' v of course be flexible and	was removed from 'Unders I have purposefully kept t	standing the World' – The he planning simple so it ca	following are key steps to an be adapted to interests	preparing children for con and topics.	nputing in KS1) This can
document below)		Computer Systems and Networks - Using a <u>Computer</u>	Programming A – 'All about Instructions'	Computer Systems and <u>Networks -</u> Exploring Hardware	Programming B – Bee bots	Data and Information – Introduction to Data
Computing-EYFS-ov erview -slides-23-07-		<i>Key Program</i> – Laptops (not iPads)	<i>Key Program</i> – Barefoot activities	<i>Key Program</i> – iPad camera app	Key Program – <mark>Bee</mark> bots	<i>Key Program</i> – Barefoot activities
YEAR 1	Computer Systems and Networks - 'Technology Around Us'	Creating Media — Digital Painting	Creating Media – Digital Writing	Data and Information – Grouping Data	Programming A — Moving a <u>Robot</u>	Programming B – Animation Introduction
	<u>https://teachcomputing</u> .org/curriculum/key- <u>stage-1/computing-</u> systems-and-networks-	<u>https://teachcomputing</u> .org/curriculum/key- stage-1/creating- media-digital-painting	<u>https://teachcomputing</u> .org/curriculum/key- stage-1/creating- media-digital-writing	https://teachcomputing .org/curriculum/key- stage-1/data-and- information-grouping- data	https://teachcomputing .org/curriculum/key- stage-1/programming- a-moving-a-robot	<u>https://teachcomputing</u> <u>.org/curriculum/key-</u> <u>stage-1/programming-</u> <u>b-introduction-to-</u> <u>animation</u>
	<u>technology-around-us</u> Key Program – www.paintz.app	Key Program – www.paintz.app	Key Program – Microsoft Word	Key Program – Provided PowerPoint Resources	Kev Proaram – <mark>Bee Bots</mark>	Key Program – Scratch Inr (iPads)
YEAR 2	Computer Systems and Networks - 'IT Around Us'	Creating Media – Digital Photography	Creating Media – Making Music	Data and Information – Pictograms	Programming A – Robot Algorithms	Programming B – An Introduction to Quizzes
	<u>https://teachcomputing</u> <u>.org/curriculum/key-</u> <u>stage-1/computing-</u> <u>systems-and-networks-</u> it-ground us	<u>https://teachcomputing</u> <u>.org/curriculum/key-</u> <u>stage-1/creating-</u> <u>media-digital-</u> <u>photography</u>	<u>https://teachcomputing</u> <u>.org/curriculum/key-</u> <u>stage-1/creating-</u> <u>media-digital-writing</u>	https://teachcomputing .org/curriculum/key- stage-1/data-and- information-grouping- data	<u>https://teachcomputing</u> <u>.org/curriculum/key-</u> <u>stage-1/programming-</u> <u>a-robot-algorithms</u>	https://teachcomputing .org/curriculum/key- stage-1/programming- b-an-introduction-to- guizzes
	Key Program – 'Barefoot' activities	Key Program – iPad Camera App & Editor OR <u>https://pixlr.com/x/</u>	Key Program – Chrome Music Labs - <u>https://musiclab.chrom</u> eexperiments.com/	Key Program – J2E Pictograms - <u>https://www.j2e.com/ji</u> t5#pictogram	Key Program – <mark>Bee Bots</mark>	Key Program – Scratch Jnr (iPads)

FEDERATION COVERAGE – LKS2

YEAR 3	Computer Systems and	Creating Media –	Creating Media –	Data and Information –	Programming A –	Programming B – Events
	Networks - 'Connecting	Animation	Desktop Publishing	Branching Databases	Sequence in Music	and Actions
	Computers'					
		https://teachcomputing	https://teachcomputing	https://teachcomputing.	https://teachcomp	https://teachcomputing.or
	https://teachcomputing	.org/curriculum/key-	.org/curriculum/key-	org/curriculum/key-	uting.org/curriculu	g/curriculum/key-stage-
	.org/curriculum/key-	stage-2/creating-	stage-2/creating-	stage-2/data-and-	<u>m/key-stage-</u>	1/programming-b-an-
	stage-2/computing-	<u>media-animation</u>	<u>media-desktop-</u>	information-branching-	2/programming-a-	introduction-to-quizzes
	systems-and-networks-		<u>publishing</u>	<u>databases</u>	sequence-in-music	
	connecting-computers					Key Program – Scratch
				Key Program – J2E		
	Key Program –	Key Program – <mark>iMotion</mark>	Key Program <mark>–</mark> Adobe	Branch Databases -	Key Program –	
	www.paintz.app	App OR An Equivalent	Express (Children will	https://www.j2e.com/jit	Scratch	
		Stop Motion App	<mark>need to sign in)</mark>	<u>5#branch</u>		
YEAR 4	Computer Systems and	Creating Media – Audio	Creating Media – Photo	Data and Information –	Programming A –	Programming B –
	Networks – The Internet	Editing	Editing	Data Logging	Repetition in	Repetition in Games
					Shapes	
	https://teachcomputing	https://teachcomputing	https://teachcomputing	https://teachcomputing.		https://teachcomputing.or
	.org/curriculum/key-	.org/curriculum/key-	.org/curriculum/key-	org/curriculum/key-	https://teachcomp	g/curriculum/key-stage-
	stage-2/computing-	stage-2/creating-	stage-2/creating-	stage-2/data-and-	uting.org/curriculu	2/programming-b-
	systems-and-networks-	<u>media-audio-editing</u>	media-photo-editing	information-data-logging	<u>m/key-stage-</u>	repetition-in-games
	<u>the-internet</u>				2/programming-a-	
				Key Program – <mark>Arduino</mark>	repetition-in-	
	Key Program – Variety	Key Program –	Key Program –	Science Journal App	<u>shapes</u>	Key Program – Scratch
	of websites (Including	<mark>Audacity</mark>	<mark>paint.net</mark>			
	Chrome Music Labs)				Key Program –	
					turtleacademy.com	
					/playground	
					(Children can sign	
					in) OR <mark>FMS Logo</mark>	

FEDERATION COVERAGE – UKS2

YEAR 5	Computer Systems and	Creating Media – Vector Drawing	Creating Media – Video Editing	Data and Information –	Programming A – Selection in Games	Programming B – Selection
	Information'	vector Drawing	Euring	Flut-Jile Dutubuses	Selection in Gumes	III Quizzes
	,	https://teachcomputing	https://teachcomputing	https://teachcomputing.	http://code-	https://teachcomputing.or
	https://teachcomputing	.org/curriculum/key-	.org/curriculum/key-	org/curriculum/key-	<u>it.co.uk/goldgame/</u>	g/curriculum/key-stage-
	.org/curriculum/key-	stage-2/creating-	<u>stage-2/creating-</u>	<u>stage-2/data-and-</u>	Diving Beetle game	2/programming-b-
	stage-2/computing-	media-vector-drawing	<u>media-video-editing</u>	information-flat-file-		selection-in-quizzes
	systems-and-networks-			<u>databases</u>	(USE, MODIFY,	
	sharing-information	<mark>Key Program –</mark>			CREATE booklets to	
		https://docs.google.co	Key Program – iMovie	Key Program – J2E	be used)	Key Program – Scratch
	Key Program – Search	<mark>m/drawings/</mark> (Children		Databases -	Key Program –	
	Engines (Google)	will need to sign in)		https://www.j2e.com/da	Scratch	
				<u>tabase/</u> (Children will		
				need to sign in)		
YEAR 6	Computer Systems and	Creating Media – 3D	Creating Media – Web	Data and Information –	Programming A –	Programming B –
	Networks -	Modelling	Page Creation	Spreadsheets	Variables in Games	Procedures in Games
	'Communication'					
		https://teachcomputing	https://teachcomputing	https://teachcomputing.	https://teachcomp	http://code-
	https://teachcomputing	.org/curriculum/key-	.org/curriculum/key-	org/curriculum/key-	uting.org/curriculu	it.co.uk/goldshape/7/
	.org/curriculum/key-	stage-2/creating-	<u>stage-2/creating-</u>	<u>stage-2/data-and-</u>	<u>m/key-stage-</u>	
	stage-2/computing-	<u>media-3d-modelling</u>	<u>media-web-page-</u>	information-	2/programming-a-	(USE, MODIFY, CREATE
	systems-and-networks-		<u>creation</u>	spreadsheets/lesson-2-	variables-in-games	booklets to be used)
	<u>communication</u>			modifying-spreadsheets		
	Key Program – Various		Key Program – Google	Key Program – Microsoft		Key Program – Scratch
	Including Scratch	Key Program –	Sites -	Excel	Key Program –	
		https://www.tinkercad.	https://sites.google.co		Scratch	
		com/ (Children will need	m/ (Children will need			
		tinkercad accounts, see	to sign in)			
		me to support setting				
		these up)				

PLANNING DOCUMENTS – MEDIUM TERM



OUR IMPLEMENTATION - ASSESSMENT

Class teachers use assessment to track the achievements of pupils through the computing subsections. This can influence next steps for pupils and the level of support needed.

I will use assessment to analyse summative data through the monitoring and evaluating process.

Key computing targets for each sequence of lessons and children should be assessed against these.

The assessment model is designed to support all pupils to access the computing curriculum and also challenge higher attaining pupils.

The assessment of computing is supported by the targets from the computing progression map and the assessment document is designed to support staff with accurate assessment measures by identifying children who have achieved targets and importantly inputting the names that have yet to achieve a target.







FEDERATION CURRICULUM ASSESSMENT



		Computing		RE			Art	
Individual	T	COMPUTER SYSTEMS AND	NETWORKS	COMMUNCIATI	E_	<u></u>	KNOWLEDGE	
target Insert names of individuals		Explain the importance of internet addresses	Goodall, Annie	Explain my own response to laws.		Give detailed notable artists', a	observations about rtisans' and designers' work;	
target (target yellow)	2	Recognise how data is transferred across the internet	Covered	Explain my own response to the concept of prophecy .		Offer facts ab artisans' and	out notable artists", I designers' lives;	
secured by all class (target green)		Explain how sharing information online can help people to work together		Explain my own response to rituals.			SKILLS	DESIG
Target not covered (stays red)		Evaluate a second se		Explain my own response to resurrection			Use a variety of techniques to add effects, e.g. shadows, reflection, hatching and cross- hatching;	

MONITORING AND EVALUATING

Impact of the implementation of the computing curriculum is measured in a variety of ways.

These include:

- Pupil Conferencing
- Work Scrutiny alongside teacher's planning
- Assessment data
- Learning walks
- Learning environment

EVIDENCE ATTAINED FROM THESE FOLLOWS ON THE NEXT SLIDES (SPLIT INTO YEAR GROUPS)

SHALFLEET – EYFS TO YEAR 6



COMPUTING IN EYFS

- Computer Systems and Networks
- Data and Information
- Programming
- Other

COMPUTER SYSTEMS AND NETWORKS







- Knows what a keyboard is
- Knows how to log in and out
- Knows how to control a mouse including clicking
- Have explored different hardware
- Can take photos using a camera app





DATA AND INFORMATION

- Can sort and categorise objects
- Can sort people into groups
- Can use yes/no sorting questions
- Can use a branching database physically
- Can interpret basic pictograms

PROGRAMMING

- Can follow instructions
- Can give instructions

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- Can read simple instructions
- Can read directional arrows
- Can give a Bee-bot a simple command
 - Can debug instructions when they go wrong

OTHER

COMPUTING IN YEAR I

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS







A	Sleep at night	
10	Helps in to	1
R	See in the dark	

Identify technology

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- Identify a computer and its main parts
- Use a mouse in different ways
- Use a keyboard to type on a computer
- Use the keyboard to edit text
 - Create rules for using technology responsibly





CREATING MEDIA

- Describe what different freehand tools do
- Use the shape tool and the line tools
- Make careful choices when painting a digital picture
- Explain why I chose the tools I used
- Use a computer on my own to paint a picture
- Compare painting a picture on a computer and on paper
- Use a computer to write
- Add and remove text on a computer
- Identify that the look of text can be changed on a computer
- Make careful choices when changing text
- Explain why I used the tools that I chose
- Compare typing on a computer to writing on paper

DATA AND INFORMATION

- Label objects
- Identify that objects can be counted
- Describe objects in different ways
- Count objects with the same properties
- Compare groups of objects
- Answer questions about groups of objects

PROGRAMMING

- Explain what a given command will do
- Act out a given word
- Combine forwards and backwards commands to make a sequence
- Combine four direction commands to make sequences
- Plan a simple program
- Find more than one solution to a problem
- Choose a command for a given purpose
- Show that a series of commands can be joined together
- Identify the effect of changing a value
- Explain that each sprite has its own instructions
- Design the parts of a project
- Use my algorithm to create a program

COMPUTING IN YEAR 2

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS

- Recognise the uses and features of information technology
- Identify the uses of information technology in the school
- Identify information technology beyond school
- Explain how information technology helps us
- Explain how to use information technology safely
- Recognise that choices are made when using information technology

CREATING MEDIA

- Use a digital device to take a photograph
- Make choices when taking a photograph
- Describe what makes a good photograph
- Decide how photographs can be improved
- Use tools to change an image
- Recognise that photos can be changed
- Say how music can make us feel
- Identify that there are patterns in music
- Show how music is made from a series of notes
- Show how music is made from a series of notes
- Create music for a purpose
- Review and refine our computer work

DATA AND INFORMATION

- Recognise that we can count and compare objects using tally charts
- Recognise that objects can be represented as pictures
- Create a pictogram
- Select objects by attribute and make comparisons
- Recognise that people can be described by attributes
- Explain that we can present information using a computer

PROGRAMMING

- Describe a series of instructions as a sequence
- Explain what happens when we change the order of instructions
- Use logical reasoning to predict the outcome of a program (series of commands)
- Explain that programming projects can have code and artwork
- Design an algorithm
- Create and debug a program that I have written
- Explain that a sequence of commands has a start
- Explain that a sequence of commands has an outcome
- Create a program using a given design
- Change a given design
- Create a program using my own design
- Decide how my project can be improved

COMPUTING IN YEAR 3

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS









- Explain how digital devices function
- Identify input and output devices
- Recognise how digital devices can change the way we work
- Explain how a computer network can be used to share information
- Explore how digital devices can be connected
- Recognise the physical components of a network





CREATING MEDIA

- Explain that animation is a sequence of drawings or photographs
- Relate animated movement with a sequence of images
- Plan an animation
- Identify the need to work consistently and carefully
- Review and improve an animation
- Evaluate the impact of adding other media to an animation
- Recognise how text and images convey information
- Recognise that text and layout can be edited
- Choose appropriate page settings
- Add content to a desktop publishing publication
- Consider how different layouts can suit different purposes
- Consider the benefits of desktop publishing

DATA AND INFORMATION

- Create questions with yes/no answers
- Identify the object attributes needed to collect relevant data
- Create a branching database
- Explain why it is helpful for a database to be well structured
- Identify objects using a branching database
- Compare the information shown in a pictogram with a branching database

PROGRAMMING

- Explore a new programming environment
- Identify that commands have an outcome
- Explain that a program has a start
- Recognise that a sequence of commands can have an order
- Change the appearance of my project
- Create a project from a task description
- Explain how a sprite moves in an existing project
- Create a program to move a sprite in four directions
- Adapt a program to a new context
- Develop my program by adding features
- Identify and fix bugs in a program
- Design and create a maze-based challenge
COMPUTING IN YEAR 4

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS

Video of role playing sending a message to a switch

Computing

Unit 1

The Internet

Key vocabulary network, router, network securi

 describe how networks physically connect to her networks
 describe the internet as a network of networks demonstrate how information is shared across

- Describe how networks physically connect to other networks
- Recognise how networked devices make up the internet
- Outline how websites can be shared via the World Wide Web (WWW)
- Describe how content can be added and accessed on the World Wide Web (WWW)
- Recognise how the content of the WWW is created by people
- Evaluate the consequences of unreliable content



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To describe how networks physically connect to

can discuss why a network needs protect

the internet

I can describe the internet as a network of networks I can demonstrate how information is shared across







CREATING MEDIA

- Identify that sound can be digitally recorded
- Use a digital device to record sound
- Explain that a digital recording is stored as a file
- Explain that audio can be changed through editing
- Show that different types of audio can be combined and played together
- Evaluate editing choices made
- Explain that digital images can be changed
- Change the composition of an image
- Describe how images can be changed for different uses
- Make good choices when selecting different tools
- Recognise that not all images are real
- Evaluate how changes can improve an image

DATA AND INFORMATION

- Explain that data gathered over time can be used to answer questions
- Use a digital device to collect data automatically
- Explain that a data logger collects 'data points' from sensors over time
- Use data collected over a long duration to find information
- Identify the data needed to answer questions
- Use collected data to answer questions

PROGRAMMING

- Identify that accuracy in programming is important
- Create a program in a text-based language
- Explain what 'repeat' means
- Modify a count-controlled loop to produce a given outcome
- Decompose a task into small steps
- Create a program that uses count-controlled loops to produce a given outcome
- Develop the use of count-controlled loops in a different programming environment
- Explain that in programming there are infinite loops and count controlled loops
- Develop a design that includes two or more loops which run at the same time
- Modify an infinite loop in a given program
- Design a project that includes repetition
- Create a project that includes repetition

COMPUTING IN YEAR 5

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS

Output

Henerolt

The outed is





How will workers know where the order is to be sent? The computer will say a code for it is go in it the locker.

How does the company know the parcel has bee collected?

The computer

Cocker closes

and it sends a message to there computer.

How does the order get

worehouse sheives? The computer

Shelve

The computer

to your phone .

will send a text

toutouse someoner tille you when the p you need toget itoget the

It pats tells the

By a breas

tells then when

computer and

it need to go into a toury

How is the order

The type in the code that the computer gives

them.

The computer will say wheat it need to be It in.





LO. To describe how search engines select results

choose a term to search and note down how many results yo

Activity: Narrowing a search



I link a system is were down a rethough or a order.



- Explain that computers can be connected together to form systems
- Recognise the role of computer systems in our lives -
- Identify how to use a search engine _
- Describe how search engines select results -
- Explain how search results are ranked _
- Recognise why the order of results is important, and to whom _





ACTIVITY -	£
tow wo	uld you use a search engine to find out
	In what year was Mahatma Gandhi born?
With a p	partner write a set of instructions for how you would find
First ge	et a computer
thereal	and book scath y up what year was Mahatesa Gardhi
forth a	And tastly tastly press enter and you will get
your	1920.00
Activit find.	y 3: Search for the following terms and note what you
Rugby	- Close-contact team sport
Boot -	and the second s
Sale -	to to offer stop our sale actors all departments
Activi	ty 4: Agreed term to search
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CREATING MEDIA

- Explain what makes a video effective
- Identify digital devices that can record video
- Capture video using a range of techniques
- Create a storyboard
- Identify that video can be improved through reshooting and editing
- Consider the impact of the choices made when making and sharing a video
- Identify that drawing tools can be used to produce different outcomes
- Create a vector drawing by combining shapes
- Use tools to achieve a desired effect
- Recognise that vector drawings consist of layers
- Group objects to make them easier to work with
- Evaluate my vector drawing

DATA AND INFORMATION

- Use a form to record information
- Compare paper and computer-based databases
- Outline how grouping and then sorting data allows us to answer questions
- Explain that tools can be used to select specific data
- Explain that computer programs can be used to compare data visually
- Apply my knowledge of a database to ask and answer real-world questions

PROGRAMMING

- Explain how selection is used in computer programs
- Relate that a conditional statement connects a condition to an outcome
- Explain how selection directs the flow of a program
- Design a program which uses selection
- Create a program which uses selection
- Evaluate my program

COMPUTING IN YEAR 6

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS

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Lesson 1:	Internet addresses
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Your school webs	ia 195,53,13,52
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- Explain the importance of internet addresses

- Recognise how data is transferred across the internet
- Explain how sharing information online can help people to work together
- Evaluate different ways of working together online
 - Recognise how we communicate using technology
- Evaluate different methods of online communication























CREATING MEDIA

- Review an existing website and consider its structure
- Plan the features of a web page
- Consider the ownership and use of images (copyright)
- Recognise the need to preview pages
- Outline the need for a navigation path
- Recognise the implications of linking to content owned by other people
- Use a computer to create and manipulate three-dimensional (3D) digital objects
- Compare working digitally with 2D and 3D graphics
- Construct a digital 3D model of a physical object
- Identify that physical objects can be broken down into a collection of 3D shapes
- Design a digital model by combining 3D objects
- Develop and improve a digital 3D model

DATA AND INFORMATION

- Identify questions which can be answered using data
- Explain that objects can be described using data
- Explain that formulas can be used to produce calculated data
- Apply formulas to data, including duplicating
- Create a spreadsheet to plan an event
- Choose suitable ways to present data

PROGRAMMING

- Define a 'procedure' as something that can be run multiple times
- Explain why a procedure is used in a program
- Choose how to improve a game by using procedures
- Define a 'variable' as something that is changeable
- Explain why a variable is used in a program
- Choose how to improve a game by using variables
- Design a project that builds on a given example
- Use my design to create a project
- Evaluate my project

YARMOUTH – EYFS TO YEAR 6



COMPUTING IN EYFS

- Computer Systems and Networks
- Data and Information
- Programming
- Other

COMPUTER SYSTEMS AND NETWORKS

- Knows what a keyboard is
- Knows how to log in and out
- Knows how to control a mouse including clicking
- Have explored different hardware
- Can take photos using a camera app

DATA AND INFORMATION

- Can sort and categorise objects
- Can sort people into groups
- Can use yes/no sorting questions
- Can use a branching database physically
- Can interpret basic pictograms

PROGRAMMING

- Can follow instructions
- Can give instructions

-

- Can read simple instructions
- Can read directional arrows
- Can give a Bee-bot a simple command
 - Can debug instructions when they go wrong

Video following instructions

<u>OTHER</u>

Staying safe with gadgets discussion







COMPUTING IN YEAR I

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS

National Centre for Computing

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- Identify technology
- Identify a computer and its main parts
- Use a mouse in different ways
- Use a keyboard to type on a computer
- Use the keyboard to edit text
 - Create rules for using technology responsibly





CREATING MEDIA

- Describe what different freehand tools do
- Use the shape tool and the line tools
- Make careful choices when painting a digital picture
- Explain why I chose the tools I used
- Use a computer on my own to paint a picture
- Compare painting a picture on a computer and on paper
- Use a computer to write
- Add and remove text on a computer
- Identify that the look of text can be changed on a computer
- Make careful choices when changing text
- Explain why I used the tools that I chose
- Compare typing on a computer to writing on paper

DATA AND INFORMATION

- Label objects
- Identify that objects can be counted
- Describe objects in different ways
- Count objects with the same properties
- Compare groups of objects
- Answer questions about groups of objects

PROGRAMMING

- Explain what a given command will do
- Act out a given word
- Combine forwards and backwards commands to make a sequence
- Combine four direction commands to make sequences
- Plan a simple program
- Find more than one solution to a problem
- Choose a command for a given purpose
- Show that a series of commands can be joined together
- Identify the effect of changing a value
- Explain that each sprite has its own instructions
- Design the parts of a project
- Use my algorithm to create a program

COMPUTING IN YEAR 2

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS

- Recognise the uses and features of information technology
- Identify the uses of information technology in the school
- Identify information technology beyond school
- Explain how information technology helps us
- Explain how to use information technology safely
- Recognise that choices are made when using information technology

CREATING MEDIA

- Use a digital device to take a photograph
- Make choices when taking a photograph
- Describe what makes a good photograph
- Decide how photographs can be improved
- Use tools to change an image
- Recognise that photos can be changed
- Say how music can make us feel
- Identify that there are patterns in music
- Show how music is made from a series of notes
- Show how music is made from a series of notes
- Create music for a purpose
- Review and refine our computer work

DATA AND INFORMATION

- Recognise that we can count and compare objects using tally charts
- Recognise that objects can be represented as pictures
- Create a pictogram
- Select objects by attribute and make comparisons
- Recognise that people can be described by attributes
- Explain that we can present information using a computer

PROGRAMMING

- Describe a series of instructions as a sequence
- Explain what happens when we change the order of instructions
- Use logical reasoning to predict the outcome of a program (series of commands)
- Explain that programming projects can have code and artwork
- Design an algorithm
- Create and debug a program that I have written
- Explain that a sequence of commands has a start
- Explain that a sequence of commands has an outcome
- Create a program using a given design
- Change a given design
- Create a program using my own design
- Decide how my project can be improved

COMPUTING IN YEAR 3

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS













- Explain how digital devices function
- Identify input and output devices

-

- Recognise how digital devices can change the way we work
 - Explain how a computer network can be used to share information
- Explore how digital devices can be connected
- Recognise the physical components of a network

CREATING MEDIA

- Explain that animation is a sequence of drawings or photographs
- Relate animated movement with a sequence of images
- Plan an animation
- Identify the need to work consistently and carefully
- Review and improve an animation
- Evaluate the impact of adding other media to an animation
- Recognise how text and images convey information
- Recognise that text and layout can be edited
- Choose appropriate page settings
- Add content to a desktop publishing publication
- Consider how different layouts can suit different purposes
- Consider the benefits of desktop publishing

DATA AND INFORMATION

- Create questions with yes/no answers
- Identify the object attributes needed to collect relevant data
- Create a branching database
- Explain why it is helpful for a database to be well structured
- Identify objects using a branching database
- Compare the information shown in a pictogram with a branching database

PROGRAMMING

- Explore a new programming environment
- Identify that commands have an outcome
- Explain that a program has a start
- Recognise that a sequence of commands can have an order
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- Create a project from a task description
- Explain how a sprite moves in an existing project
- Create a program to move a sprite in four directions
- Adapt a program to a new context
- Develop my program by adding features
- Identify and fix bugs in a program
- Design and create a maze-based challenge
COMPUTING IN YEAR 4

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS







The internet is connected by lots of routers . The ______ is part of the intertet where we can visit with pages and web pages internet routers websites World Wide Web



To: 5@home Draw a triangle in the space below, then forward this message to 3@school. Would you BLOCK or ALLOW this request? Explain your decision below: because If we shall to form that cord	100000000000000000000000000000000000000	From	Maddisa at cons
Draw a triangle in the space below, then forward this message to 3@school. Would you MUCK or ALLOW this request? Explain your decision below: because it w cally to send that cord	100000000000000000000000000000000000000	То:	5@home
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Explain your decision below: because		Would you BLO	CK or ALLOW this request?
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- Describe how networks physically connect to other networks
- Recognise how networked devices make up the internet
- Outline how websites can be shared via the World Wide Web (WWW)
- Describe how content can be added and accessed on the World Wide Web (WWW)
- Recognise how the content of the WWW is created by people
- Evaluate the consequences of unreliable content



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Creating Music in Chrome Lab



Acting Out Sending Info Via Router and Networks

CREATING MEDIA

- Identify that sound can be digitally recorded
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- Explain that a digital recording is stored as a file
- Explain that audio can be changed through editing
- Show that different types of audio can be combined and played together
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- Change the composition of an image
- Describe how images can be changed for different uses
- Make good choices when selecting different tools
- Recognise that not all images are real
- Evaluate how changes can improve an image

DATA AND INFORMATION

- Explain that data gathered over time can be used to answer questions
- Use a digital device to collect data automatically
- Explain that a data logger collects 'data points' from sensors over time
- Use data collected over a long duration to find information
- Identify the data needed to answer questions
- Use collected data to answer questions

PROGRAMMING

- Identify that accuracy in programming is important
- Create a program in a text-based language
- Explain what 'repeat' means
- Modify a count-controlled loop to produce a given outcome
- Decompose a task into small steps
- Create a program that uses count-controlled loops to produce a given outcome
- Develop the use of count-controlled loops in a different programming environment
- Explain that in programming there are infinite loops and count controlled loops
- Develop a design that includes two or more loops which run at the same time
- Modify an infinite loop in a given program
- Design a project that includes repetition
- Create a project that includes repetition

COMPUTING IN YEAR 5

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS



- Explain that computers can be connected together to form systems
- Recognise the role of computer systems in our lives
- Identify how to use a search engine

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- Describe how search engines select results
- Explain how search results are ranked
- Recognise why the order of results is important, and to whom

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CREATING MEDIA

- Explain what makes a video effective
- Identify digital devices that can record video
- Capture video using a range of techniques
- Create a storyboard
- Identify that video can be improved through reshooting and editing
- Consider the impact of the choices made when making and sharing a video
- Identify that drawing tools can be used to produce different outcomes
- Create a vector drawing by combining shapes
- Use tools to achieve a desired effect
- Recognise that vector drawings consist of layers
- Group objects to make them easier to work with
- Evaluate my vector drawing

DATA AND INFORMATION

- Use a form to record information
- Compare paper and computer-based databases
- Outline how grouping and then sorting data allows us to answer questions
- Explain that tools can be used to select specific data
- Explain that computer programs can be used to compare data visually
- Apply my knowledge of a database to ask and answer real-world questions

PROGRAMMING

- Explain how selection is used in computer programs
- Relate that a conditional statement connects a condition to an outcome
- Explain how selection directs the flow of a program
- Design a program which uses selection
- Create a program which uses selection
- Evaluate my program

COMPUTING IN YEAR 6

- Computer Systems and Networks
- · Creating Media
- Data and Information
- Programming

COMPUTER SYSTEMS AND NETWORKS



6. It doesn't have the house number.



- Explain the importance of internet addresses
- Recognise how data is transferred across the internet
- Explain how sharing information online can help people to work together
- Evaluate different ways of working together online
- Recognise how we communicate using technology

-

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im_m_si sausage . oce .

Evaluate different methods of online communication



CREATING MEDIA

- Review an existing website and consider its structure
- Plan the features of a web page
- Consider the ownership and use of images (copyright)
- Recognise the need to preview pages
- Outline the need for a navigation path
- Recognise the implications of linking to content owned by other people
- Use a computer to create and manipulate three-dimensional (3D) digital objects
- Compare working digitally with 2D and 3D graphics
- Construct a digital 3D model of a physical object
- Identify that physical objects can be broken down into a collection of 3D shapes
- Design a digital model by combining 3D objects
- Develop and improve a digital 3D model

DATA AND INFORMATION

- Identify questions which can be answered using data
- Explain that objects can be described using data
- Explain that formulas can be used to produce calculated data
- Apply formulas to data, including duplicating
- Create a spreadsheet to plan an event
- Choose suitable ways to present data

PROGRAMMING

- Define a 'procedure' as something that can be run multiple times
- Explain why a procedure is used in a program
- Choose how to improve a game by using procedures
- Define a 'variable' as something that is changeable
- Explain why a variable is used in a program
- Choose how to improve a game by using variables
- Design a project that builds on a given example
- Use my design to create a project
- Evaluate my project

ACTION PLAN

2022/2023 One Page Subject Action Plan

FDP Link - Strategic Objective 1: Aspire

Subject – Computing

Ensuring the provision of high quality curriculum, teaching, learning & assessment.

Every child has a 'fantastic education'

Subject Lead – Stuart Cook

ACTION	WHY?	HOW?	WHO?	COST/RESOURCES?	OBJECTIVE	EVALULATION	NEXT STEPS
		Success Criteria			ACHIEVED?	What has been the	
						impact?	
To ensure relevant software and hardware is installed/bought so that new computing long term plan can be taught	In order for the new long-term plan to be taught effectively a multitude of new software and hardware is needed that has not been used before/prioritised in previous long- term plans.	 Create a list of relevant software/hardware Contact ICT manager to get free software installed, indicating whether it is needed for iPads or laptops and getting shortcuts added. Cost up any hardware/paid software. Present to Finance officer for approval and order these for both schools. Distribute resources when they arrive. Update email accounts for children in relevant classes. 	Me (computing lead) ICT manager (Mark Flanders) Finance manager (Vikki Plumbley)	Bee bots – 1x £60 exc VAT – Check budget for final amount iMotion (app) – free Audacity (software) – free Arduino Science Journal (app) – free FMS logo (software) - free			
To record observations of learning and child's voice in computing	These are two key aspects of subject leadership that have been missing from the last two years.	 Liaise with headteacher about organising subject specific days. Communicate this with staff. Create proforma for making notes on learning. Create proforma for child interviews Spend half a day at each school during computing day, seeing learning in each class and capturing child voice. 	Me (computing lead) Headteacher (Elizabeth Grainger) All teaching staff HLTA cover (likely Sharon Moran)	Subject lead release time (1 day – half a day at both schools). HLTA cover for my class.			
To ensure teachers are supported in capturing evidence for their learning	As there has been a change in types of lesson and software used, teachers may be less familiar with how best to capture evidence.	 Review long term plan and identify trickier areas to evidence Seek to support teachers of these areas before they teach them Ensure that teachers can easily contact me if they have concerns in any areas for evidence capturing. Teachers will have placed evidence on Google Drive. Evaluate and give feedback to teachers on evidence. 	Me (computing lead) All teaching staff	Subject lead time (dependent on support needed by staff) iPads for evidence capture			

Minimum of 2 actions to take forward – Maximum of 3 actions to take forward.