Nettleham Church of England

(Voluntary Aided) Junior School

Curriculum

Our School Vision

As a Christian school we believe that every member of our community should feel wonderful, amazing, loved, valued and unique, because God made us that way. We encourage all our children to achieve the highest possible standards and develop skills to be lifelong learners. Our school values are: Trust, Humility, Thankfulness, Koinonia, Friendship and Endurance.

Our Curriculum Vision

Our curriculum is rooted in our school's Christian identity and reflects our values and vision. Thorough academic learning is balanced and enriched by a wide variety of creative, sporting and musical experiences. We aspire to give all our pupils the opportunities, skills and knowledge to have the best possible chance in life.

Rationale

<u>Intent</u>

The Church family is at the heart of our curriculum and our curriculum is taught in such a way as to reflect our values and vision. Our curriculum is based on the principles of balance, coherence and relevance. The curriculum is infused with a well thought-out variety of academic challenges balanced with an array of creative, musical and sporting enrichment opportunities whilst also nurturing personal development. Spiritual, moral, social, cultural development, along with physical and mental wellbeing, underpins all our work. These elements have been carefully considered in designing a broad, balanced and ambitious curriculum for all, which gives children the knowledge to succeed and the skills to become lifelong learners, whichever path they take. We have an aspiration for our children to be successful, independent, resilient, proactive learners, well rounded, passionate pupils so they develop the skills, knowledge and understanding that will set them in good stead for future learning and to give them the best possible chance in life. This is provided in a safe atmosphere of mutual trust, respect and support. We strive to be an inspiring learning community for all which reflect the school and village locality, heritage and community.

Implementation

Pupils learn best when they are happy, confident and interested. They are supported and challenged by staff through a variety of teaching methods to make connections between different subjects and link this to their own life experiences and prior knowledge. In this way knowledge is retained and learning becomes secure and embedded. Misconceptions are closely monitored and children receive effective and timely feedback. Children are encouraged to take responsibility for their own learning and identify their own mistakes, rectifying them where possible and appropriate.

Staff have excellent subject knowledge, which is constantly being developed, and they use this effectively to motivate all children. They ensure that the learning environment is attractive, stimulating and conducive to the development of knowledge, skills and concepts.

The curriculum is thoroughly enriched with a broad range and variety of trips, visitors and engaging experiences both within lessons, throughout the day and extra-curricular activities to enhance pupil provision. Pupils are regularly encouraged to explore their creativity and imagination through diverse music, sports and art projects and experiences.

Formative and summative assessment are regularly used to inform teacher judgements of attainment and progress allowing staff to identify any gaps and provide suitable levels of intervention, support and challenge. Results are tracked and monitored through our own assessment system and then analysed by subject leaders and senior leaders. All subjects have clearly mapped out skills and knowledge progressions, so prior knowledge is effectively built upon. Marking and feedback is used effectively to further learning, set targets, praise, inform planning, correct misunderstanding, assess, recognise success and showing children next steps to improve through reflecting on comments and personal goal setting.

The whole school family work hard to motivate and inspire our pupils to prepare them for the world they live in today and for life.

Impact

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As a result of our broad and rich curriculum, pupils develop detailed knowledge and skills across a range of subjects, recalling and retaining facts and ideas appropriately, and, as a result, achieve well. Where relevant, this is reflected in national test results, where children meet government age related expectations. All pupils read competently and fluently to gain knowledge, understanding and for pleasure. Pupils are given the necessary skills and values to be ready for both the next stage of their education and for their future lives in the wider world. We instil all our pupils with good morals and values to enable them to become tolerant and compassionate individuals.

The effectiveness of our curriculum design is regularly monitored and evaluated by leaders, and adjusted if necessary to ensure the best possible outcomes for all our pupils.



ICT

Computer Science – How it works - Writing code, algorithms, reasoning, debugging, controlling or simulating physical systems

Information Technology – Use Technology effectively (collect, analyse, interpret, design, evaluate) Presenting work, Combining technologies effectively

Digital Literacy – Identify and use opportunities for communication and collaboration, Choose technology effective, E-Safety (Respect and responsibility, who to contact)

	Autumn	Spring	Summer	E-Safety
Year 3	 Inserting Text and Image (MS Word and Publisher) and Keyboard Skills (BBC Dance Mat and Two type) Learn basic word processing skills, procedures and formatting options, including: making text bold, italic or underlined; using undo and redo; Select text in different ways; changing case; aligning text; cut, copy and paste text; format fonts; insert images; explore basic <ctrl> keyboard shortcuts (copy, paste).</ctrl> Learn to open and save files on a networked system and explore basic file roots to save to specific locations. Begin to develop an understanding of touch 	 Coding (Hour of code and Scratch) :<i>Felix and Herbert,</i> <i>and Whack a Witch</i> Move and edit blocks as part of a given algorithm, including but not limited to; adding a pre-programmed background and character, following mouse pointer, programming basic controls, and changing costume. Follow instructions to program an algorithm as a sequence of game instructions with actions and consequences. Design an original character game including sprites with multiple costumes and backdrops for a game. Add features or effects to enhance a game. 	 Animation (I Can Animate and Pivot Stickman) Describe one or more traditional methods of animation. Create a series of linked frames that can be played as a short animation. Use a time slider to find a specific point in a film clip to insert or edit an object. Insert, edit and refine images to create a simple stop- motion animation short film clip. Make slight changes to an image using onion skinning, understanding the term. Compare different animation software by analysing good 	By the end of year 3, all children should be able to: • recognise cyberbullying; • identify a safe person to tell if they encounter cyberbullying; • know that cyberbullying can happen via a range of devices; • identify adverts online; • identify a targeted advert; • explore how companies use websites to promote products; • create a strong password; • explain why a strong password is important; • explain what privacy settings are;
	 typing and finger placement on the keyboard. Understand the main parts of a desktop computer: tower, monitor, keyboard, mouse, webcam, USB stick, speakers, camera, scanner, etc. Identify inputs and outputs for computers. 	 E-Safety (see E-safety column) This learning should be embedded and promoted throughout the year. 1. To know what cyberbullying is and how to address it. 2. To understand how websites use advertisements to promote products. 3. To create strong passwords and understand privacy settings. 	and bad points. Presenting work Continue with skills learnt during Inserting Text and Image and Keyboard Skills Unit	 discuss email as a form of communication; identify an email that they should not open; write an email with an address and subject; know how to safely send an email; know how to safely receive an email;

	Typing Skills See Inserting Text and Image Children should be given the typing skills on a physical ke twice a year, preferably in T opportunity to pick up their Type to continue to develop Digital Literacy Opportunities Publisher – Christmas Cards The meaning of Christmas Por Healthy Eating posters (insert word processing + research Geography – internet researc Plants in different habitats	 4. To safely send and receive emails. 5. To explore different ways children can communicate online. 6. To use knowledge about online safety to plan a party online. 	Essential learning (non-negotiables) • What is an algorithm, input and output? (Simon Haughton) • Identifying inputs and outputs for computers (Inputs – keyboard, mouse [inc. tracker pad], camera, scanner, game controller. Outputs – printer, speaker/headphone, USB perennials. Stretch – identify those which are both input and output – touchscreen [ipad screen], USB	 identify online communities they are a part of; identify different forms of online communication; discuss the positive and negative aspects of online communities; discuss the differences between communication in real life and online; discuss what they have learnt about online safety; communicate their ideas with a group clearly and listen to others' contributions; use what they know about online safety to plan a party using online methods.
Year 4	 Coding (Scratch) Questions and Quizzes (build on skills and knowledge from Y3) Write a program which accomplishes a specific goal. Create a program that includes a logical sequence. Debug a program they have written. Use repetition and selection. Work with variables and adjust these depending on the effect they wish to create. Understand and use the duplicate function. Demonstrate that they understand how to 	 Word Processing (build on skills and knowledge from Y3) Revise and consolidate skills learnt in Year 3: basic word processing skills, procedures and formatting options, including: making text bold, italic or underlined; using undo and redo; Select text in different ways; changing case; aligning text; cut, copy and paste text; format fonts; insert images; explore basic <ctrl> keyboard shortcuts.</ctrl> Learn new word processing skills, procedures and formatting options, including: making effective use of spellcheck and synonym tools; 	 task] Flow Charts Follow instructions to draw simple flow charts using MS Publisher and given symbols. Identify conventional symbols, understanding the process of each stage. Complete and debug given flow charts. Create flow charts using decisions, loops, inputs/outputs and multiple termination points. 	By the end of Year 4, all children should be able to: • define cyberbullying; • know how to respond to a hurtful message or comment online; • access a trusted search engine; • understand that different search terms give different results; • know what plagiarism is; • identify which information to keep private online;

	combine a range of	o using bullet points or	• Use decisions and	 explain what digital
	different effects to create	numbering;	subroutines.	citizenship is;
	their own quiz.	\circ using the snipping tool to	 Consider how flow 	 tell someone else
	 Build on their existing 	take screen shots;	charts are similar to	at least one way to
	knowledge to experiment	 manipulating images using 	computer coding	stay safe online.
	and innovate when	crop function and basic	and where they are	
	programming.	effects;	used in everyday	most children will
		 insert and format text boxes; 	life.	be able to:
		 altering margin size and page 		 identify comments
		size;		or messages that
		\circ adding tables and		may be hurtful to
		manipulating layout		others;
		(including altering column		 edit their own
		and row size, adding and		messages and
		deleting rows and formatting		comments to make
		cells)		sure they are kind;
		o use URLs to link to other		 understand that
-	-	webpages/documents.		search results are
	E-Safety (build on skills and	How Search Engines Work	Presenting work	ranked;
	This learning should be	Effective searching, how	(Continue to explore	choose an
	embedded and promoted	search results are ranked,	Word processing	appropriate
	throughout the year.	Hyperlinks, MS PowerPoint,	unit)	number of words
	1.To identify how a	Key figure in development of		for a
	message can hurt	Internet (Tim Berners-Lee)		search term;
	someone's feelings.	Identify how a search engine		explain now to use
	2. To say how you should	works and collates results.		other people's
	respond to a hurtful	• Identify that the internet is		work respectfully;
	message online.	comprised of many		• explain why it may
	3. To demonstrate you can	computers/servers linked		share private
	use a search engine	together and now searches		information:
	accurately.	are completed.		• explain how to be a
	4. To understand the term	Explore terminology and		good digital citizen:
	'plagiarism' and how to	procedures around searches		• tell someone else
	avoid it.	more offective (refine them		more than one way
	5. To create a safe online	(use of quotation marks		to stay safe online
	profile.	minus symbol, koy words		
	6.To explain how to be a	Googlewback)		
	responsible digital citizen.	Evolore a key individual in		
	7. To create an online safety	the development of		
	superhero character.	computers (Sir Time Berners-		
		Display research including		
		citation LIRIs in a		
		PowerPoint including		
		transitions animations and		
		hyperlinks		
		Recan use of keystrokes for		
		copy and paste		
		copy and paste.	1	

	 Typing Skills See Inserting Text and Image and Keyboard Skills unit. Children should be given the opportunity to practise their typing skills on a physical keyboard each term. At least twice a year, preferably in Term 1, children should have the opportunity to pick up their work on BBC Dance Mat or Two Type to continue to develop their touch typing skills. Digital Literacy Opportunities NO 2019 UPDATE GIVEN Information leaflets – publisher and book creator (Compare and contrast) Research – science (animals, gases), History and geography Newspaper articles (formatting) – Word or publisher? Which is better to use. 		Essential learning (non-negotiables) (Inc. reiteration from previous year groups) • How the internet works (Simon Haughton – URL) • Why passwords are important and how they can protect sensitive information. (Link to Mastermind game) • What is the difference between password and encryption? (Link to secret agent code task.)		
Year	5	 Excel - Spread sheets (Simon Haughton) (build on skills and knowledge from Y4) To understand how to reference cells in Excel. To enter simple formulae into a spreadsheet. To investigate how formulae results update automatically. To use =SUM to compute numbers in a spreadsheet. To use AUTOSUM feature to quickly find totals. To explore each of the 4 key operators to complete calculations. To use a spreadsheet to calculate and present data. To use conditional formatting in a spreadsheet. 	 Sketch Up 3D Modelling 3D Printing – how does it work and link to 3D modelling software (keyrings) To be able to draw basic 3D shapes using a 3D modelling program. To add further detail to 3D drawings. To combine multiple 3D shapes and manipulate 3D models to create complex 3D models. To understand scaling and measurements in 3D models. Use a range of SketchUp tools including: shape, push, pull, orbit, pan, zoom, erase and fill, and concepts including: the dimensions toolbar and guides, tape measure, zoom extents and the 3D warehouse. Use inference points to draw lines and shapes. To convert 2D drawings in to 3D models. 	 Coding (Scratch) – Maze Game (build on skills and knowledge from Y3/4) Move and edit blocks as part of an algorithm. Program an algorithm as a sequence of game instructions with actions and consequences. Design an original character game including own sprites with multiple costumes and backdrops for a game. Add features or effects to enhance a game including timers an adding a point-scoring system and levels to game code. Build on their existing knowledge to experiment and innovate when programming. Debug and fix coding issues as they occur. 	By the end of Year 5, all children should be able to: identify a spam email; explain what to do with spam email; understand why they should cite a source; explain the rules for creating a strong password; create a strong password using a set of rules; know that not everything they see online is true; explain how to stay safe online; identify unsafe online behaviour. most children will be able to: identify a dangerous spam email; create multiple strong passwords for use across different platforms; spot citations

	 E-Safety (build on skills and knowledge from Y3/4) This learning should be embedded and promoted throughout the year. 1. To identify spam emails and what to do with them. 2. To write citations for the websites I use for research. 3. To create strong passwords. 4. To recognise when, 	 3D printing (Link to Sketch Up unit) To understand the basic principles of 3D printing, including how 3D modelling can lead to a physical product and how the 3D printer works. To understand the limitations and some of the possible applications of 3D printing. To take part in the creation of a 3D print from a 3D 	 Building websites (Hyperlinks in MS PPT) (build on skills and knowledge from Y4) Comment on the features and layout of a webpage. Create a new webpage with a chosen layout and format text in the webpage. Independently search for images that can be used in 	online; • alter a photograph.
	why and how photographs we see online may have been edited. 5. To apply online safety rules to real- life scenarios.	 by individuals. Physical control (Blocky using Dash) Move and edit blocks as part of an algorithm. Plan and program an algorithm as a sequence to control a robotic device. Use problem solving and mathematical skills to follow paths or complete tasks. Explore how infrared sensors can be used in coding to avoid obstacles. Create autonomy of movement through coding algorithms 	 documents. Insert and format an image in a webpage. Independently create a hyperlink. Learn how to share a webpage so it can be viewed by anyone. Use the advanced features of Google's web search. 	
	Typing Skills See Inserting Text and Ir Children should be given their typing skills on a At least twice a year, p should have the oppo BBC Dance Mat or Two their touch typing skill Digital Literacy Opportu Chroma Key (Green scree Researching and presen formatting and word p on iPads / computer (Myanmar/Burma) Presenting work from Li Wordle/word clouds.	mage and Keyboard Skills unit. In the opportunity to practise physical keyboard each term. preferably in Term 1, children rtunity to pick up their work on o Type to continue to develop ls. unities een) ting work (inserting images, processing +research) – various Greece, Vikings, and teracy lessons.	Essential learning (non-negotiables) (Inc. reiteration from previous year groups) • How a network works (Simon Haughton URL) • Identifying parts of a computer (including internals of IPAD/Raspberry Pi) (Simon Haughton)	
Year 6	 E-Safety (build on skills and knowledge from Y3/4/5) This learning should be embedded and promoted throughout the year. 1. I can find similarities 	 Robots in the Real World (inc. Lightbot and Alex – IPad) Define the term 'robot'. Research and present findings about where robotics and emerging 	 Apps for a purpose (Designing apps) (build on skills and knowledge from Y5) Explore the function and form of multiple apps to identify 	By the end of Year 6 all children should be able to: • say what bullying and cyberbullying are;

 and differences between in-person and cyberbullying. 2.1 can identify good strategies to deal websites by ubesites by seals of approval. 3.1 can identify secure websites by dentify a privacy seals of approval. Explore some ways in which benefits and pitfalls of online. J understand the benefits and pitfalls of online. S.1 can identify information that I should never share. Can identify how the media pity a powerful role in shaping ideas about gifts and boys. L can use my knowledge for online. S.1 can auge my knowledge of online safety to create a multiple choice quiz. Presentation booktet information. Present information of a booktet using templates on Publisher. Make own decisions about font, text size and other Make own decisions about tont, text size and other Make own decisions Make own decisions<th></th>	
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• Insert images and	 compare gender
shapes to convey	stereotypes.
snapes to convey	
meaning and add	
additional	

	information.	
	Include citations to	
	others' work if used.	
	Typing Skills	Essential learning
	See Inserting Text and Image and Keyboard Skills unit.	(non-negotiables)
	Children should be given the opportunity to practise	(Inc. reiteration from
	their typing skills on a physical keyboard each term.	previous year
	At least twice a year, preferably in Term 1, children	groups)
	should have the opportunity to pick up their work on	Application of apps
	BBC Dance Mat or Two Type to continue to develop	and robotics in the
	their touch typing skills.	real world.
	Digital Literacy Opportunities	(Computing beyond
	Choices boards – images and research	school)
	Researching and presenting findings (inserting images,	 Consolidation and
	formatting and word processing +research) – DT,	application of
	Science (Animal adaptations), History (medicine and	various desktop/app
	Ancient Egypt, Rosetta stone)	based programmes
	Leisure and entertainment in a decade research and	to display and
	presentation project. River Nile leaflets, DT pizza,	represent work and
	making booklets, end of ear production programmes.	findings.
	Researching and maps (Geography – European country)	
	Poetry – word	
	Analysis and evaluate performance (Eyeel) PE	
	Analyse and evaluate performance (Excel) PE –	
	gymnastics, science experiments.	tonics
EXURA-	Visitors to school with focus on a sofety	topics
Curricular	Visitors to school with locus of e-safety	
	Dubliching work for other lossens	
	Lice of image and video capturing devices for evidencing	and visual literacy
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	INCOME LEGITING SUILE / FUWER OF 2 DOUSLET SESSIONS	

Key stage descriptors taken from:

<u>National curriculum in England: computing programmes of study</u> (<u>https://www.gov.uk/government/publications/national-curriculum-in-england-computing-programmes-of-study</u>)

Key stage 1

Pupils should be taught to:

- 1. understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions
- 2. create and debug simple programs
- 3. use logical reasoning to predict the behaviour of simple programs
- 4. use technology purposefully to create, organise, store, manipulate and retrieve digital content
- 5. recognise common uses of information technology beyond school

6. 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:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- 2. use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- 3. 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
- 5. use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- 6. 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
- 7. use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

	KS1	KS2
CS	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	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 Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web Appreciate how [search] results are selected and ranked
п	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Use search technologies effectively 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
DL	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	Understand the opportunities [networks] offer for communication and collaboration Be discerning in evaluating digital content Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

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Glossary of Terms

algorithm	an unambiguous procedure or precise step-by-step guide to solve a problem or achieve a particular objective
computer networks	the computers and the connecting hardware (wifi access points, cables, fibres, switches and routers) that make it possible to transfer data using an agreed method ('protocol')
Computational thinking	An analytical approach to 'problem' solving (including abstraction , decomposition , logical thinking , pattern evaluation , and generalisation .)
control	using computers to move or otherwise change 'physical' systems. The computer can be hidden inside the system or connected to it
data	a structured set of numbers, representing digitised text, images, sound or video, which can be processed or transmitted by a computer
debug	to detect and correct the errors in a computer program
digital content	any media created, edited or viewed on a computer, such as text (including the hypertext of a web page), images, sound, video (including animation), or virtual environments, and combinations of these (i.e. multimedia)
browser	A computer program used to access the World Wide Web
FTP	File Transfer Protocol. A service for moving files.
HTML	Hyper Text Markup Language: the 'code' used to create and lay out web pages.
information	the meaning or interpretation given to a set of data by its users, or which results from data being processed
input	data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors
internet	the global collection of computer networks and their connections, all using shared protocols (TCP/IP - transmission control protocol/internet protocol) to communicate
IP address	Numerical label assigned to each device on a computer network.
logical reasoning	a systematic approach to solving problems or deducing information using a set of universally applicable and totally reliable rules
Network	A group of computers that are connected (including the internet)
output	the information produced by a computer system for its user, typically on a screen, through speakers or on a printer, but possibly through the control of motors in physical systems
program	a stored set of instructions encoded in a language understood by the computer that does some form of computation, processing input and / or stored data to generate output
repetition	a programming construct in which one or more instructions are repeated, perhaps a certain number of times, until a condition is satisfied or until the program is stopped
search	to identify data that satisfied one or more conditions, such as web pages containing supplied keywords, or files on a computer with certain properties

selection	a programming construct in which the instructions that are executed are
	determined by whether a particular condition is met
sequence	to place programming instructions in order, with each executed one after the
	other
services	programs running on computers, typically those connected to the internet, which
	provide functionality in response to requests; for example, to transmit a web
	page, deliver and email or allow a text, voice or video conversation
simulation	using a computer to model the state and behaviour of real-world (or imaginary)
	systems, including physical and social systems; an integral part of most computer
	games
software	computer programs, including both application software (such as office programs,
	web browsers, media editors and games) and the computer operating system. The
	term also applies to 'apps' running on mobile devices and to web-based services
URL	Uniform Resource Locator: a nickname (address) for a website.
variables	a way in which computer programs can store, retrieve or change simple data, such
	as a score, the time left, or the user's name
WAN	Wide Area Network. Computers connected together that are geographically far
	apart, even in different countries. The internet is an example.
Web site	A collection of web pages.
World Wide Web	a service provided by computers connected to the internet (web servers), in which
	pages of hypertext (web pages) are transmitted to users; the pages typically
	include links to other web pages and may be generated by programs automatically