



Computing - Long Term Plan

Pupils should be taught to:

Key Stage 1

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

Key Stage 2

- 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; 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



Garton on the Wolds C.E. (V.C.) Primary School

Respect, Aspire, Achieve

"I have come that they may have life, and have it to the full" (John 10 v.10)"

Long Term Plan

Subject: Computing

- 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.

Our School Vision is to work as a community within the school's Christian ethos. We learn about world faiths alongside our Christian Values to work towards creating an Outstanding school where all can flourish. Through the provision of a broad and balanced curriculum we encourage every child to develop lively, creative and enquiring minds enabling them to become confident individuals who reach their full potential and succeed in Modern Britain.

Our school works in partnership with the church and the wider community to give a caring and nurturing environment. Together we enable and equip each child to "I have come that they may have life, and have it to the full" (The Gospel of John – Chapter 10, verse 10).

We will realise our Vision through the following aims:

- demonstrating, as a Church school, our Christian values in action
- consistently high standards of teaching
- providing a happy, healthy and secure environment where all are respected, valued and encouraged to contribute
- excellent leadership and governance
- encouraging a love of learning by participating in experiences full of opportunity and creativity
- pursuing excellence in every aspect of school life, supporting one another and celebrating the achievements of all
- a partnership of pupils, teachers, parents, governors and the local community
- targets are challenging and achievable.

GARTON ON THE WOLDS CE PRIMARY SCHOOL INTENT, IMPLEMENTATION AND IMPACT

Intent

Computing is a huge part of all of our lives. At Garton we feel it's vital to provide a wealth of learning opportunities and transferrable skills within the Computing lesson and across other curriculum subjects. Our children will learn to develop a wide range of fundamental skills, knowledge and understanding that will equip them for a life of ever increasing technology.

Implementation

Computing can help pupils make accelerated progress. We support pupils to develop their skills such as researching, typing, editing and art skills. Then we use those skills in cross-curricular work.

Internet Safety

All children at Garton will be taught about internet safety, which even begins at early years. Throughout the time at Garton, they will be taught to use technology safely and respectfully and recognise acceptable and unacceptable behaviour, 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.

Impact

By the end of Key Stage 2, children at Garton will be equipped, not only with the skills and knowledge to use technology in the early part of their lives and will give them the base knowledge they need as technology grows and becomes even more sophisticated. They will have the foundations of internet safety and will have the knowledge and skills to stay safe and pass on the message to others.

With a consistent exposure to a life of computing, our children are becoming more confident in their abilities in Computing, they will become more independent and key life skills will come naturally.



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Cycle A - 2023/24

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Expressive Arts, Purple Mash Explore Colour and colour mixing Develop storylines in their pretend play Create their own songs Play instruments with increasing control to express feelings or ideas	Communication and Language, Purple Mash Articulate their ideas Use new vocabulary in different contexts Express ideas Listen to and talk about selected non-fiction to develop a deep familiarity with new knowledge and vocabulary. Engage in non-fiction books. Retell stories	Maths, Purple Mash Count to 10, 20 and beyond Link numerals and amounts, compare quantities Solve real world mathematical problems Understand position through words alone along with routes and locations Subitise Automatic recall Explore patterns	Physical Development, Purple Mash Use a range of small tools effectively and begin to show accuracy and care when drawing Know and talk about factors that supports their overall health and well being PSED, Purple Mash Play with one or more other children, extending and elaborating play ideas. Build constructive and respectful relationships. Be confident to try new activities	Literacy, Purple Mash Engage in extended conversations about stories, learning new vocabulary. Read books to build up their confidence in word reading, their recognise words and read individual letters Read simple phrases and sentences Form letters correctly, spell words, write short sentences.	Understanding the world, Purple Mash Name and describe people who are familiar to them. Compare and contrast characters from stories, including figures from the past. Recognise some similarities and differences between life in this country and life in other countries. Understand that some places are special to members of their community.



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				Show resilience and perseverance in the face of challenge.		
Year 1/2	1.2 online safety 1.7 Programming coding	1.3 Handling Data Pictograms teachcomputing.org (Differentiation)	1.4 Multimedia Lego Builders 1.9 Technology in our lives – Technology outside school	1.5 – Programming Maze Explorers	1.6 Multimedia Animated Stories	1.8 Handling Data – Spreadsheets
Year 3/4	3.1 Programming coding 3.2 Online Safety	3.3 Handling Data Spreadsheets 3.4 Basic Skills Touch Typing	3.5 Technology in our lives Email	Programming Microbit	3.6 Handling Data Branching Databases 3.7 Simulations	3.9 Multimedia Presentations
Year 5/6	6.2 Online Safety 5.1 Programming Coding	5.4 Handling Data databases	6.8 Technology in our lives Binary	Programming Microbit	<u>Key Skills in Google</u> Word Processing/ Presentations	5.6 3d Modelling



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Cycle B - 2024/25

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Expressive Arts Computing	Communication and Language Computing	Maths Computing	Physical Development Computing PSED Computing	Literacy Computing	Understanding the world Computing
Year 1/2	2.2 online safety 2.1 Programming coding	2.3 Handling Data Spreadsheets teachcomputing.org (Differentiation)	2.7 Making Music	2.5 Technology in our lives – Effective Searching 2.8 Presenting ideas	2.6 Multimedia Creating Pictures	2.4 Handling Data – Questioning
Year 3/4	4.1 Programming Coding 4.2 online safety	4.9 Multimedia – making music 4.5 Programming Logo	4.3 Handling Data spreadsheets	4.6 Multimedia Animation 4.7 Technology on our lives - Effective Searching	Programming MicroBits 4.8 Technology on our lives - Hardware investigators	4.4 – Key Skills Writing for different audiences



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Year 5/6	5.2 Online Safety 6.1 Programming Coding	5.3 Handling Data Spreadsheets	5.5 Game Creator	6.6 Technology in our lives – networks 6.4 Multimedia blogging	Programming MicroBits	6.7 Multimedia quizzing
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