

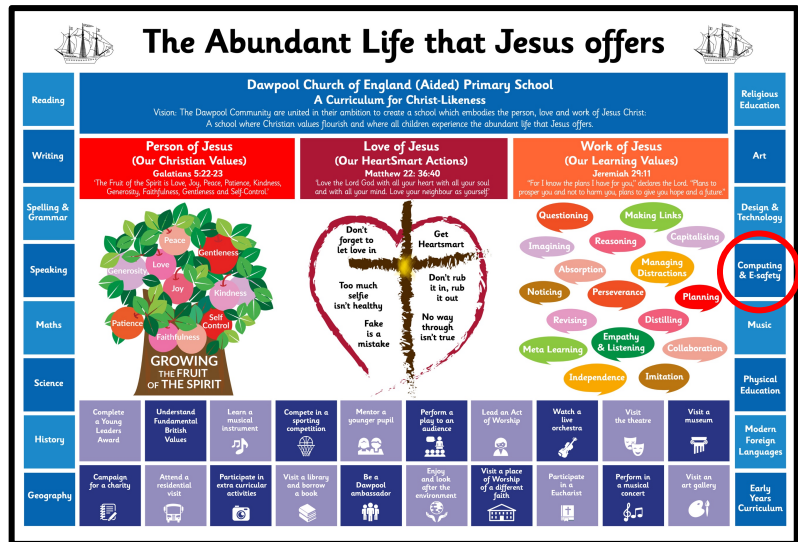


DAWPOOL

Computing
& E-safety

Dawpool C.E. (Aided) Primary School

A Dawpool Computer-User



Vision Statement

'The Dawpool community are united in their ambition to create a school which embodies the **person, love and work of Jesus Christ**: a school which enables **Christian values to flourish** and where all children may experience the **abundant life that Jesus offers**.'

'The Fruit of the Spirit is Love, Joy, Peace, Patience, Kindness, Generosity, Faithfulness, Gentleness and Self-Control' (Galatians 5: 22-23).

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Why is Computing Important?

Computing prepares pupils to participate in a rapidly changing world in which work and other activities are increasingly transformed by access to varied and developing technology. Pupils use computers to find, explore, analyse, exchange and present information responsibly, creatively and with discrimination. They learn how to employ computers to enable rapid access to ideas and experiences from a wide range of people, communities and cultures. Increased capability in the use of computers promotes initiative and independent learning, with pupils being able to make informed judgements about when and where to use computers to best effect, and to consider its implications for home and work both now and in the future.

Dawpool's Vision for Computing

On completion of the Computing curriculum at Dawpool, pupils will have:

- Used a range of applications and devices with increasing confidence.
- Developed practical skills in the use of information technology and the ability to use them to communicate ideas throughout the curriculum.
- Considered the capabilities and limitations of information technology and the implications and consequences of its use.
- Practical experience of coding and programming.
- Experience of collecting, organising and manipulating data.
- Understood how to connect with others safely and respectfully and the need to act within the law and with integrity.

National Curriculum for Computing

The National Curriculum for Computing at Key Stages 1 and 2 can be downloaded from the 'Curriculum' tab of the Dawpool school website.

Key stage 1

Pupils should be taught to:

- 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

'For I know the plans I have for you,' declares the Lord. 'Plans to prosper you and not to harm you, plans to give you hope and a future.' (Jeremiah 29:11)



- 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

Pupils should be taught to:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and 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
- 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.

A Year 1 Computer User at Dawpool

Year 1 algorithms and programming

- I can create a series of instructions.
- I can plan a journey for a programmable toy.

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Year 1 information technology

- I can create digital images.
- I can open digital content.
- I can save digital content.
- I can use a website.
- I can use an iPad or tablet
- I can record sounds and play back (for example, recording stories, weather reports)

Year 1 digital literacy

- I can use technology safely.
- I know that passwords help to keep my information private

A Year 2 Computer User at Dawpool

Year 2 algorithms and programming

- I can use a range of instructions (e.g. direction, angles, turns).
- I can test and amend a set of instructions.
- I can find errors and amend. (debug)
- I can write a simple program and test it.
- I can predict what the outcome of a simple program will be (logical reasoning).
- I understand that algorithms are used on digital devices.
- I understand that programs require precise instructions.

Year 2 information technology

- I can organise digital content.
- I can retrieve and manipulate digital content.
- I can navigate the web to complete simple searches.
- Digital literacy
- I use technology respectfully.
- I know where to go for help if I am concerned.

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- I know how technology is used in school and outside of school.

A Year 1 & 2 Safe Computer User at Dawpool

Year 1 & 2 knowledge and understanding

- I understand the different methods of communication (e.g. email, online forums etc).
- I know you should only open email from a known source.
- I know the difference between email and communication systems such as blogs and wikis.
- I know that websites sometimes include pop-ups that take me away from the main site.
- I know that bookmarking is a way to find safe sites again quickly.
- I have begun to evaluate websites and know that everything on the internet is not true.
- I know that it is not always possible to copy some text and pictures from the internet.
- I know that personal information should not be shared online.
- I know I must tell a trusted adult immediately if anyone tries to meet me via the internet.

Year 1 & 2 skills

- I follow the school's safer internet rules.
- I can use the search engines agreed by the school.
- I know what to do if I find something inappropriate online or something I am unsure of (including identifying people who can help; minimising screen; online reporting using school system etc).
- I can use the internet for learning and communicating with others, making choices when navigating through sites.
- I can send and receive email as a class.
- I can recognise advertising on websites and learn to ignore it.
- I can use a password to access the secure network.



A Year 3 Computer User at Dawpool

Year 3 algorithms and programming

- I can design a sequence of instructions, including directional instructions.
- I can write programs that accomplish specific goals.
- I can work with various forms of input.
- I can work with various forms of output.

Year 3 information technology

- I can use a range of software for similar purposes.
- I can collect information.
- I can design and create content.
- I can present information.
- I can search for information on the web in different ways.
- I can manipulate and improve digital images.

Year 3 digital literacy

- I use technology respectfully and responsibly.
- I know different ways I can get help if I am concerned.
- I understand what computer networks do and how they provide multiple services.
- I can discern where it is best to use technology and where it adds little or no value.

A Year 4 Computer User at Dawpool

Year 4 algorithms and programming

- I can experiment with variables to control models.
- I can give an on-screen robot specific instructions that takes them from A to B.
- I can make an accurate prediction and explain why I believe something will happen (linked to programming).
- I can de-bug a program.



Year 4 information technology

- I can select and use software to accomplish given goals.
- I can collect and present data.
- I can produce and upload a pod cast.

Year 4 digital literacy

- I recognise acceptable and unacceptable behaviour using technology.

A Year 3 & 4 Safe Computer User at Dawpool

Year 3 & 4 knowledge and understanding

- I understand the need for rules to keep me safe when exchanging learning and ideas online.
- I recognise that information on the internet may not be accurate or reliable and may be used for bias, manipulation or persuasion.
- I understand that the internet contains fact, fiction and opinion and begin to distinguish between them.
- I use strategies to verify information, e.g. cross-checking.
- I understand the need for caution when using an internet search for images and what to do if I find an unsuitable image.
- I understand that copyright exists on most digital images, video and recorded music.
- I understand the need to keep personal information and passwords private.
- I understand that if I make personal information available online it may be seen and used by others.
- I know how to respond if asked for personal information or feel unsafe about content of a message.
- I recognise that cyber bullying is unacceptable and will be sanctioned in line with the school's policy.
- I know how to report an incident of cyber bullying.
- I know the difference between online communication tools used in school and those used at home.
- I understand the need to develop an alias for some public online use.
- I understand that the outcome of internet searches at home may be different than at school.



Year 3 & 4 skills

- I follow the school's safer internet rules.
- I recognise the difference between the work of others which has been copied (plagiarism) and re-structuring and re-presenting materials in ways which are unique and new.
- I can identify when emails should not be opened and when an attachment may not be safe.
- I can explain and demonstrate how to use email safely.

A Year 5 Computer User at Dawpool

Year 5 algorithms and programming

- I can combine sequences of instructions and procedures to turn devices on and off.
- I can use technology to control an external device.
- I can design algorithms that use repetition & 2-way selection.

Year 5 information technology

- I can analyse information.
- I can evaluate information.
- I understand how search results are selected and ranked.
- I can edit a film.

Year 5 digital literacy

- I understand that you have to make choices when using technology and that not everything is true and/or safe.



A Year 6 Computer User at Dawpool

Year 6 algorithms and programming

- I can design a solution by breaking a problem up.
- I recognise that different solutions can exist for the same problem.
- I can use logical reasoning to detect errors in algorithms.
- I can use selection in programs.
- I can work with variables.
- I can explain how an algorithm works.
- I can explore 'what if' questions by planning different scenarios for controlled devices.

Year 6 information technology

- I can select, use and combine software on a range of digital devices.
- I can use a range of technology for a specific project.

Year 6 digital literacy

- I can discuss the risks of online use of technology.
- I can identify how to minimise risks.

A Year 5 & 6 Safe Computer User at Dawpool

Year 5 &6 knowledge and understanding

- I can discuss the positive and negative impact of the use of ICT in my own life, my friends and family.
- I understand the potential risk of providing personal information online.
- I recognise why people may publish content that is not accurate and understand the need to be critical evaluators of content.
- I understand that some websites and/or pop-ups have commercial interests that may affect the way the information is presented.
- I recognise the potential risks of using internet communication tools and understand how to minimise those risks (including scams and phishing).
- I understand that some material on the internet is copyrighted and may not be copied or downloaded.

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- I understand that some messages may be malicious and know how to deal with this.
- I understand that online environments have security settings, which can be altered, to protect the user.
- I understand the benefits of developing a 'nickname' for online use.
- I understand that some malicious adults may use various techniques to make contact and elicit personal information.
- I know that it is unsafe to arrange to meet unknown people online.
- I know how to report any suspicions.
- I understand I should not publish other people's pictures or tag them on the internet without permission.
- I know that content put online is extremely difficult to remove.
- I know what to do if I discover something malicious or inappropriate.

Year 5 & 6 skills

- I follow the school's safer internet rules.
- I can make safe choices about the use of technology.
- I can use technology in ways which minimises risk. e.g. responsible use of online discussions, etc.
- I can create strong passwords and manage them so that they remain strong.
- I can independently, and with regard for e-safety, select and use appropriate communication tools to solve problems by collaborating and communicating with others within and beyond school.
- I can competently use the internet as a search tool.
- I can reference information sources.
- I can use appropriate strategies for finding, critically evaluating, validating and verifying information. e.g. using different keywords, skim reading to check relevance of information, cross checking with different websites or other non ICT resources.
- I can use knowledge of the meaning of different domain names and common website extensions (e.g. .co.uk; .com; .ac; .sch; .org; .gov; .net) to support validation of information.