



National Curriculum Aims KS1	
Learning Goals for Computing. 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. Create and debug simple programs. Use logical reasoning to predrams. EKS2 Design, write and debug programs that accomplish specific across the code and the program that achieves a specific purpose. They can also identify and correct some program that achieves a specific purpose. They can also identify and correct some errors. Children follow instructions been find the program designs and code a program that follows a simple algorithm. When the steps are out of order and can write their own simple algorithm when the steps are out of order and can write their own simple algorithm when the steps are out of order and can write their own simple algorithm when the steps are out of order and can write their own simple algorithm when the steps are out of order and can write their own simple algorithm when the steps are out of order and can write their own simple algorithm. Children follow instructions in love and also identify and correct some errors. Children's program designs and code a program that fachieves a ablity to design and code a program that fachieves a ablity to design and code a program that fachieves a ablity to design and code a program that fachieves a ablity to design and code a program that fachieves and also identify and correct some errors. Children is program sevecute by following programs and unambiguous instructions. Children is program designs. Children are beginning to understand the difference in the effects in their programs. Children are beginning to understand how variables can be used to store information while a program is executing. They understand if statements for selection and repetition effects are becoming more logic	Year 6
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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	ion and repetition into and their own designs that they are thinking of accomplish the set task e utilising such ares, including nesting ares within each other. Ig displays an improving standing of variables in g, outputs such as sound lovement, inputs from er of the program such ton clicks and the value ctions. In are able to interpret a am in parts and can logical attempts to put parate parts of a ex algorithm together to a the program as a en understand and can in some depth the ent and the World Wide Children know what a log the control of the program and can be how they access the

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- Recognise common uses of information technology beyond
- Use technology safely and respectfully, keeping personal information private; they have concerns online technologies.

respectfully and acceptable/

Children talk about past and present events in their own lives and in the lives of family members. They know that other children don't always enjoy the same things and are sensitive to this. They know about similarities and differences between themselves and others, and among families, communities and traditions.

Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.

Children are able to sort, collate, edit and store simple digital content e.g. children can name, save and retrieve their work and follow simple instructions to access online resources.

Children demonstrate an ability to organise data using, for example, a database and can retrieve specific data for conducting simple searches.

Children are able to edit more complex digital data such as music compositions within 2Sequence.

Children are confident when creating, naming, saving and retrieving content.

Children use a range of media in their digital content including photos, text and sound.

Children can carry out simple searches to retrieve digital content. They understand that to do this, they are connecting to the internet and using a search engine such as Purple Mash search or internet-wide search engines.

Children can collect, analyse, evaluate and present data and information using a selection of software, e.g. using a branching database, using software such as 2Graph.

Children can consider what software is most appropriate for a given task. They can create purposeful content to attach to emails, e.g. 2Respond.

Children understand the function, features and layout of a search engine. They can appraise selected webpages for credibility and information at a basic level.

Children are able to make improvements to digital solutions based on feedback.

Children make informed software choices when presenting information and data. They create linked content using a range of software such as 2Connect and 2Publish+.

Children share digital content within their community, i.e. using Virtual Display Boards.

Children search with greater complexity for digital content when using a search engine. They are able to explain in some detail how credible a webpage is and the information it contains.

Children are able to make appropriate improvements to digital solutions based on feedback received and can confidently comment on the success of the solution. e.g. creating their own program to meet a design brief. They objectively review solute.

ions from others. Children are able to collaboratively create content and solutions using digital features within software such as collaborative mode.

They are able to use several ways of sharing digital content, i.e. 2Blog, Display Boards and 2Email.

Children readily apply filters when searching for digital content. They are able to explain in detail how credible a webpage is and the information it contains. They compare a range of digital content sources and are able to rate them in terms of content quality and accuracy. Children use critical thinking skills in everyday use of online

Children make clear connections to the audience when designing and creating digital content. The children design and create their own blogs to become a content creator on the internet.

communication.

They are able to use criteria to evaluate the quality of digital solutions and are able to identify improvements, making some refinements.

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- identify where to go for help and support when about content or contact on the internet or other

Use technology safely, responsibly; recognise Children sing songs, make music and dance and experiment with ways of changing them. They safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.

Children use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role-play and stories.

Children understand what is meant by technology and can identify a variety of examples both in and out of school. They can make a distinction between objects that use modern technology and those that do not e.g. a microwave vs. a chair.

Children understand the importance of keeping information, such as their usernames and passwords. private and actively demonstrate this in lessons

Children take ownership of their work and save this in their own private space such

Children can effectively retrieve relevant, purposeful digital content using a search engine. They can apply their learning of effective searching beyond the classroom. They can share this knowledge, e.g. 2Publish example template.

Children make links between technology they see around them, coding and multimedia work they do in school e.g. animations, interactive code and programs.

Children know the implications of inappropriate online searches

Children demonstrate the importance of having a secure password and not sharing this with anyone else. Furthermore, children can explain the negative implications of failure to keep passwords safe and secure.

They understand the importance of staying safe and the importance of their conduct when using familiar communication tools such as 2Email in Purple Mash.

They know more than one way to report unacceptable content and contact.

Children can explore key concepts relating to online safety using concept mapping such as 2Connect.

They can help others to understand the importance of online safety.

Children know a range of ways of reporting inappropriate content and contact.

Children have a secure knowledge of common online safety rules and can apply this by demonstrating the safe and respectful use of a few different technologies and online services.

Children implicitly relate appropriate online behaviour to their right to personal privacy and mental wellbeing of themselves and others.

Children demonstrate the safe and respectful use of a range of different technologies and online services.

They identify more discreet inappropriate behaviours through developing critical thinking, e.g. 2Respond activities.

They recognise the value in preserving their privacy when online for their own and other people's safety.

unacceptable behaviour; identify a range of ways to report concern about content and contact.	as their My Work folder on Purple Mash.	Children begin to understand how things are shared electronically such as posting work to the Purple Mash display board.		
		They develop an understanding of using email safely by using 2Respond activities on Purple Mash and know ways of reporting inappropriate behaviours and content to a trusted adult.		