

| | EYFS Links | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|----------|----------------------|----------------------|----------------------|----------------------|------------------------|---------------------|---------------------|
| Computer | I can talk about | I can explain that | I can explain an | I can base a written | I can turn a real-life | I can make more | I can turn a |
| Science | where I am moving | an algorithm is a | algorithm is a set | algorithm for a | situation to solve | complex real-life | complex |
| | a toy vehicle whilst | set of instructions. | of instructions to | program upon a | into an algorithm, | problems into | programming task |
| | I am moving it. | I know that a | complete a task. | real-life situation. | using a design that | algorithms for a | into an algorithm. |
| | I can describe the | computer program | I know I need to | I can design an | shows how I can | program. | I can identify the |
| | route taken by a | turns an algorithm | carefully plan my | algorithm carefully, | accomplish this in | I can test and | important aspects |
| | toy vehicle. | into code that the | algorithm so it will | thinking about | code. | debug my | of a programming |
| | I can follow | computer can | work when I make | what I want the | I can use repetition | programs as I | task (abstraction). |
| | directions to make | understand. | it into code. | program to do and | in my code. For | work. | I can decompose |
| | a route for a toy | I can work out | I can design a | how I could turn | example, using a | I can convert | important aspects |
| | vehicle. | what is wrong | simple program | my algorithm into | loop that continues | (translate) | of a programming |
| | I can plan a route | when the steps are | using 2Code that | code. | until a condition is | algorithms that | task in a logical |
| | for a toy vehicle. | out of order in | achieves a | I am able to design | met such as the | contain sequence, | way, identifying |
| | I can follow my | instructions. | purpose. | a program thinking | correct answer | selection and | appropriate coding |
| | own plan for | I can try and fix my | I can find and | logically about the | being entered. | repetition into | structures that |
| | where the vehicle | code if it isn't | correct some | sequence of steps | I can use timers | code that works. | would work. |
| | should move. | working properly. | errors in my | required. | within my program | I can use sequence, | I can test and |
| | | I can make good | program. | I can experiment | designs more | selection, | debug my program |
| | | guesses of what is | I can say what will | with timers in my | accurately to | repetition, and | as I work on it and |
| | | going to happen in | happen in a | programs. | create repetition | some other coding | use logical |
| | | a program. | Program. | I can experiment | effects. | structures in my | methods to |
| | | | I can spot | with the effect of | I can use selection | code. | identify a cause of |
| | | | something in a | using repeat | (decision) in my | I can organise my | a bug. |
| | | | program that has | commands. | programming. For | code carefully for | I can identify a |
| | | | an action or effect | I can identify the | example, using an | example, naming | specific line of |
| | | | (does something). | difference in using | 'if statement' for a | variables and using | code that is |
| | | | | the effect of a | question being | tabs. I know this | causing a problem |
| | | | | timer or repeat | asked and the | will help me debug | in my program and |
| | | | | command in my | program takes one | more efficiently. | attempt a fix. |
| | | | | code. | of two paths. | I can use logical | I can translate |
| | | | | I can identify an | I can use variables | methods to | algorithms that |
| | | | | error in my | within my program | identify the cause | include sequence, |
| | | | | program and fix it. | and know how to | of any bug with | selection and |
| | | | | | | support to identify | repetition into |



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| | | | I can read | change the value | the specific line of | code and nest |
| | | | programs with | of variables. | code. | these structures |
| | | | several steps and | I can use the user | know the | within each other. |
| | | | predict what it will | inputs and output | importance of | I can use inputs |
| | | | do. | features within my | computer | and outputs within |
| | | | I can identify | program, such as | networks and how | my coded |
| | | | different ways that | 'Print to screen'. | they help solve | programs such as |
| | | | the Internet can be | I can identify errors | problems and | sound, movement |
| | | | used for | in my code by | enhance | and buttons and |
| | | | communication. | using different | communication. | represent the state |
| | | | I can use email | methods, such as | I recognise the | of an object. |
| | | | such as 2Email to | stepping through | main dangers that | I can interpret |
| | | | respond to others | lines of code and | can be | (understand) a |
| | | | appropriately and | fixing them. | perpetuated via | program in parts |
| | | | attach files. | I can read | computer | and can make |
| | | | | programs that | networks. | logical attempts to |
| | | | | contain several | I can explain what | put the separate |
| | | | | steps and predict | personal | parts together in |
| | | | | the outcomes with | information is and | an algorithm to |
| | | | | increasing | know strategies for | explain the |
| | | | | accuracy. | keeping this safe. | program as a |
| | | | | I recognise the | I can use the most | whole. |
| | | | | main component | appropriate form | I can explain the |
| | | | | parts of hardware | of online | difference |
| | | | | which allow | communication | between the |
| | | | | computers to join | according to the | Internet and the |
| | | | | and form a | digital content. | World Wide Web. |
| | | | | network. | . | I can explain what |
| | | | | I understand that | | a WAN and LAN is |
| | | | | network and | | and describe the |
| | | | | communication | | process of how |
| | | | | components can | | access to the |
| | | | | be found in many | | internet in school |
| | | | | different devices | | is possible. |
| | | | | amerent devices | | 13 00331016. |



| | | | | | which allow them | | |
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| | | | | | to join the internet | | |
| ICT | I can make music | I can sort sound, | I can organise data | I can carry out | I understand the | I can search | I can use filters |
| | using a computer. | pictures and text. | – for example, | searches to find | purpose of a | precisely when | when searching fo |
| | | I can add sound, | using a database. | digital content on a | search engine and | using a search | digital content. |
| | | pictures and text to | I can find data | range of online | the main features | engine. For | I can explain in |
| | | a program. | using specific | systems on an | within it. | example, I know I | detail how |
| | | I can change | searches. | Internet search | I can look at | can add additional | accurate and |
| | | content on a file | I can use several | engine. | information on a | words or removes | reliable a webpag |
| | | such as text, sound | programs to | I can collect data | webpage and make | words to help find | and its content is. |
| | | and images. | organise | and input it into | predictions about | better results. | I can compare a |
| | | I can name my | information using | software. | the accuracy of | I can explain in | range of digital |
| | | work. | binary trees or | I can analyse data | information | detail how | content sources |
| | | I can save my work. | spreadsheets. | using features | contained within it. | accurate, safe and | and rate them in |
| | | I can find my work. | I can edit digital | within software to | I can create and | reliable the | terms of content |
| | | | data such as data | help such as, | improve my | content is on a | quality and |
| | | | in music | formula. | solutions to a | webpage. | accuracy. |
| | | | composition | I can present data | problem based on | I can make | I can consider the |
| | | | software. | and information | feedback. | appropriate | intended audience |
| | | | I can name, save | using different | I can review | improvements to | carefully when I |
| | | | and find my work. | software such as a | solutions that | digital work I have | design and make |
| | | | I can include | branching | others have | created. | digital content. |
| | | | photos, text and | database or a | created, using a | I can comment on | I can design and |
| | | | sound in my | graphing tool. | checklist of criteria. | how successful a | create my own |
| | | | creations. | I can consider what | I can work | digital solution is | online blogs. |
| | | | | the most | collaboratively to | that I have created. | I can use criteria t |
| | | | | appropriate | create content and | I can work | evaluate the |
| | | | | software to use | solutions. | collaboratively | quality of my own |
| | | | | when given a task | I can share digital | with others | and others digital |
| | | | | by my teacher. | content using a | creating solutions | solutions, |
| | | | | I can create | variety of | to problems using | suggesting |
| | | | | purposeful | applications | appropriate | refinements. |
| | | | | (appropriate) | | software. | |
| | | | | content and attach | | | |
| | | | | this to emails. | | | |



| | ~ | | | | | I | |
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| | | | | | | I can collaborate by | |
| | | | | | | working with | |
| | | | | | | others and sharing. | |
| Digital | I can talk about | I can say what | I can find | I can create a | I have a good | I have a secure | I can demonstrate |
| Literacy | what photos show. | technology is. | information I need | secure password. | understanding of | knowledge of | safe and respectful |
| | I can use devices | I can say what | using a search | I can explain the | the online safety | online safety rules | use of a range of |
| | with care. | examples of | engine. | importance of | rules we learn at | taught at school. | different |
| | I can find all the | technology are in | I know the | having a secure | school. | I can demonstrate | technologies and |
| | letters of the | school. | consequences of | password and not | I can demonstrate | the safe and | online services. |
| | alphabet on a | I can say what | not searching | sharing it with | how to use | respectful use of | I can identify more |
| | keyboard. | examples of | online safely. | others. | different online | different online | discrete |
| | I can put spaces | technology are at | I can share work | I can explain the | technologies | technologies and | inappropriate |
| | between words in | home. | and communicate | negative | safely. | online services. | behaviours online. |
| | my typed work. | I know that a chair | electronically. | consequences of | I can demonstrate | I always relate | For example, |
| | I can select colours | uses old | I can report unkind | not keeping | how to use a few | appropriate online | someone who may |
| | when painting on | technology and a | behaviour and | passwords safe and | different online | behaviour to my | be trying to groom |
| | the computer. | smart phone uses | things that upset | secure. | services safely. | right to have | me or someone |
| | | new technology. | me online, to a | I understand the | I know I have a | personal privacy. | else. |
| | | I can keep my login | trusted adult. | importance of | right to privacy | I know how to not | I can use critical |
| | | information safe. | I can see where | keeping safe online | both on and | let my mental | thinking to help me |
| | | I can save my work | technology is used | and behaving | offline. | wellbeing or others | stay safe online. |
| | | in a safe place. | at school such as in | respectfully. | I recognise that my | be affected by use | I know the value of |
| | | | the office or | I can use | wellbeing can be | of online | protecting my |
| | | | canteen. | communication | affected by how I | technologies and | privacy and others |
| | | | I understand that | tools respectfully | use technology. | services. | online. |
| | | | my creations in | and use good | I can report with | | |
| | | | programs need | etiquette. | ease any concerns | | |
| | | | similar skills to the | I can report | with content and | | |
| | | | adult world. e.g., | unacceptable | contact online and | | |
| | | | The program used | content and | know immediate | | |
| | | | for collecting | contact online in | strategies to keep | | |
| | | | money for school | more than one way | safe. | | |
| | | | trips. | to a trusted adult. | | | |
| | | | | I have a good | | | |
| | | | | understanding of | | | |



| | | the online safety rules we learn at school. | | |
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