

| Subject Overview: Computing | | | | | | | |
|-----------------------------|------------------|---|---------------------------------------|-------------------------------|----------------------------------|-----------------------------------|--|
| Year R | Online Safety | Computer Systems and | Programming 1: All about Instructions | Computer Systems and | Programming 2: All about BeeBots | Data Handling: Introduction to | |
| | The children | Networks 1: | | Networks 2: | | Data | |
| | will learn about | Using a | The children will | Exploring | The children will learn | | |
| | the importance | Computer/iPad | learn to give and | Hardware | all about directions | | |
| | of staying safe | | receive instructions | | and experiment with | The children will | |
| | online and the | The children | and the importance | The children will | programming | learn to sort and | |
| | importance of | will learn the | of clear instructions | tinker with | directions into a | categorise data | |
| | finding a | parts of a | | equipment and | Beebot programmable | into pictograms | |
| | balance | computer and | Curriculum Links | learn to take | robot | | |
| | between | the parts of an | | photos of the | | Curriculum Links | |
| | screen time | iPad. They will | Developing listening | world around | Curriculum Links | | |
| | and playing | learn how to | and speaking skills | them | | Handling data | |
| | with friends | login and logout | (Literacy) | | Position and direction (Maths) | (Maths) | |
| | Curriculum | | | Curriculum | | | |
| | Links | Curriculum Links | | Links | | | |
| | Personal, social | | | Describing what | | | |
| | and emotional | Name writing | | they see, hear | | | |
| | development | and letter recognition | | and feel in the world through | | | |
| | | (Literacy) Recognising | | photography (Understanding | | | |
| | | images and symbols as having meaning | | the World) | | | |



| Year 1 | Computer | Creating Media | Skills Showcase | Data Handling | Programming A – | Programming B – | |
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| | Systems/ | Digital Imagery | Rocket to the Moon | Intro to data | Algorithms/robots | Simple | |
| | Online Safety | | | | | animations | |
| | | The children | The children will | The children will | The children will learn | | |
| | The children | will learn how | learn how to | learn to input | about simple | The children will | |
| | will learn the | to take a good | sketch, input data | simple data and | algorithms: how to | learn how to | |
| | parts of an iPad | photo, search | and type using the | analyse their | debug and programme | video and fill | |
| | and how to | for images and | iPad keyboard | findings | a robot | content in front | |
| | access apps. | create a | | | | of a Green | |
| | They will learn | collage | Curriculum Links | Curriculum | Curriculum Links | Screen | |
| | about keeping | | | Links | | | |
| | safe online. | | Neil Armstrong and | | Directions – How to | Curriculum Links | |
| | | | moon landing | Documenting | find gold (English | | |
| | Curriculum | Curriculum | (History) | investigations | text) | Creating | |
| | Links | Links | | (Science) | | advertisements | |
| | | | Space collages | | | for smoothies | |
| | Safer Internet | Taking photos | (Art) | | | using puppets (D | |
| | Day | of buildings | | | | & T) | |
| | | (Geography) | | | | | |
| | | Planning | | | | | |
| | | interiors (D&T) | | | | | |
| Year 2 | Computer | Creating Digital | Computing Systems | Data Handling – | Programming A – | Programming B – | |
| icai z | Systems/ | Media-Stop | Word Processing | International | Algorithms/ Debugging | Scratch Jr | |
| | Online Safety | Motion | | Space Station | , 60 0 | | |
| | , | | The students will | | The children will learn | The students will | |
| | The children | The students | learn about simple | The children will | how to programme | learn how to use | |
| | will learn the | will learn about | typing skills on the | learn how to | and debug simple | the application | |
| | parts of an iPad | simple | iPad keyboard and | interpret data | algorithms | Scratch Jr to | |
| | and identify | animation and | how to copy and | and understand | | create musical | |
| | inputs and | plan and create | paste text | the role of | Curriculum Links | instruments, | |
| | outputs. The | a short stop | - | technology in | | | |

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| | will learn about | motion movie | Curriculum Links | space | Create maps to get the | jokes and stories | |
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| | keeping safe | | Constitute Control | | animals to the correct | 0.251.35 | |
| | online | Curriculum | Creating fact files of | Curriculum | biomes (Science) | Curriculum Links | |
| | Curriculum | Links | Andy Warhol (Art) | Links | | The Three Little | |
| | Links | Creating stop | Researching | | | Pigs story telling | |
| | 211110 | motions of The | Florence | | | (English Text) | |
| | Safer Internet | Jolly Postman | Nightingale/Mary | | | (0 | |
| | Day | (English Text) | Seacole | | | | |
| | | | (Science) | | | | |
| | | | | | | | |
| | Communitari | Donomoralis | Constinue Mardin | Commuting | Data Handlina | Committee | |
| Year 3 | Computer Systems/ | Programming Scratch | Creating Media – Video Trailers | Computing Systems/ | Data Handling – Comparisons | Computing Systems and | |
| | Online Safety | Scratch | video frailers | emailing | Compansons | Networks | |
| | Offinite Surety | The children | The children will | Cilianing | The children will learn | Networks | |
| | The students | will learn to | develop their | The children will | how to sort and filter | The children will | |
| | will learn about | programme, | filming and editing | learn how to | through relevant data | build on their | |
| | the journey of | create music | skills through the | send emails | they will learn about | knowledge of | |
| | information | and stories and | creation of | with | digital and non-digital | how a computer | |
| | and what | tinker with a | storyboards and | attachments | databases | works by creating | |
| | happens to the | familiar | book/movie trailers | and how to be a | | paper parts of | |
| | information we | programme | | responsible | Curriculum Links | the models. | |
| | send | Commissortone | Curriculum Links | digital citizen | Deviencies data fram | Cumiculum Links | |
| | Curriculum | Curriculum Links | Book trailers for | Curriculum | Reviewing data from historical periods and | Curriculum Links | |
| | Links | LIIKS | Stone Age Boy | Links | making comparisons | | |
| | Liino | Predicting, | (English Text) | Limo | (History) | | |
| | Safer Internet | testing and | (=::6:::::::::) | Sending email | (************************************** | | |
| | Day | reviewing | | letters from | | | |
| | | (Science) | | Tom to his | | | |
| | | | | father (English | | | |
| | | Recognising | | | | | |



| | | loops and | | Text) | | | |
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| | | repetition in | | | | | |
| | | pieces of music | | Sending emails | | | |
| | | (Music) | | to authors to | | | |
| | | | | ask questions | | | |
| | | | | (English) | | | |
| Year 4 | Computer | Creating Media | Skills Showcase – | Programming – | Programming – | Data Handling – | |
| | Systems/ | Website | HTML | Further Coding | Computational | Investigating | |
| | Online Safety | Design | | with Scratch | Thinking | Weather | |
| | | | The children will | | | | |
| | The children | The children | learn to edit the | The children will | The children will learn | The children will | |
| | will learn to | will develop | HTML and CSS of a | revisit the | about the 4 skill areas | learn to research | |
| | collaborate on | their word | website and will | Scratch | of 'computational | and store data | |
| | shared | processing | replace images and | application and | thinking' and how to | using | |
| | documents | skills and learn | text to create fake | how to code | use them to solve | spreadsheets. | |
| | such as; slides, | to change | news stories | effectively they | problems | They will use | |
| | forms and | layouts, embed | | will learn how | | green screens to | |
| | spreadsheets | videos and link | Curriculum Links | to introduce | Curriculum Links | present weather | |
| | | between pages | | variables | | forecasts | |
| | Curriculum | | Create fake news | | Applying problem | | |
| | Links | Curriculum | stories linking to | Curriculum | solving skills to solve | Curriculum Links | |
| | | Links | Beowolf by Michael | Links | problems with | | |
| | Shared fact | | Morpurgo | | measures and money | Weather and | |
| | files/ slide | Creating tourist | (English Text) | Ongoing | (Maths) | climate | |
| | presentations | websites about | | multiplication | | (Geography) | |
| | on Ancient | the UK | | skills practice | | | |
| | Greece | countries and | | (Maths) | | Pulleys powered | |
| | (History) | regions and | | | | by air/wind | |
| | | what you can | | | | (D&T) | |
| | Creating | do in each | | | | | |
| | shared | place | | | | | |
| | instructional | (Geography) | | | | | |
| | booklets for | | | | | | |

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| L TAKE ENV | electricity and | | | | | | |
|------------|-----------------|-------------------------------|---------------------|-------------------|-----------------------|--------------------|--|
| | circuits | | | | | | |
| | (Science) | | | | | | |
| Year 5 | Computer | Creating Media | Programming – | Data Handling – | Programming – Micro: | Skills Showcase – | |
| | Systems/ | Stop Motion | Music | Mars Rover 1 | Bit | Mars Rover 2 | |
| | Online Safety | Animation | | | | | |
| | | | The children will | The children will | The children will | The children will | |
| | The children | The children | use Sonic Pi to | research The | develop their | deepen their | |
| | will learn to | will take | programme | Mars Rover and | understanding of the | understanding of | |
| | search | inspiration | different sounds, | develop their | meaning and purpose | how computers | |
| | effectively, | from Wallace | beats and melodies | understanding | of programming | work and | |
| | learn about | and Gromit to | and share their | of how data | | develop 3D | |
| | keywords and | plan and create | work through a | travels and | Curriculum Links | design skills | |
| | phrases and | their own stop | battle of the bands | binary code | | | |
| | how to identify | motion movies | | | Programming a | Curriculum Links | |
| | inaccurate | | Curriculum Links | Curriculum | pedometer - Healthy | | |
| | information | Curriculum | | Links | me (PSHE) | Mechanical and | |
| | | Links | Looking at | | | electrical systems | |
| | Curriculum | | instruments from | Earth and Space | | (D&T) | |
| | Links | Creating short | the Tudor times and | (Science) | | | |
| | | mystery | programming these | | | | |
| | Safer Internet | movies | sounds into their | Binary Numbers | | | |
| | Day | (English) | musical piece | (Maths) | | | |
| | | | (History) | | | | |
| | | Creating short | | | | | |
| | | animal | | | | | |
| | | documentary | | | | | |
| | | movies of | | | | | |
| | | England and | | | | | |
| | | Madagascar | | | | | |
| | | (Geography) | | | | | |
| Year 6 | Computer | Creating Media | Programming – | Data Handling 1 | Data Handling 2 – Big | Skills Showcase – | |
| | Systems/ | History of | | | | Inventing a | |



| LEARN ESION | Online Safety | Computers | Intro to Python | – Big Data | Data 2 | Product | |
|-------------|------------------|-----------------|-------------------|-------------------|-------------------------|-------------------------|--|
| | 21 | 30 | | 2.0 2 3.03 | | | |
| | The children | The children | The children will | The children will | Students will learn how | The children will | |
| | will learn about | will write, | learn to use the | learn about | data can be used to | use a software | |
| | Bletchley Park | record and edit | programme Logo to | how companies | develop and design. | programme to | |
| | and will | radio plays set | tinker, input | use data. They | They will design a | design their own | |
| | develop their | in WWii. | algorithms and | will identify | smart school. | products they | |
| | code breaking | | programme | how barcodes | | will adapt and | |
| | and hacking | | 1 0 | and QR codes | Curriculum Links | debug code to | |
| | skills. | | Curriculum Links | work | | make it suitable | |
| | | Curriculum | | | Presentation skills | | |
| | Curriculum | Links | Creating computer | Curriculum | (English) | Curriculum Links | |
| | Links | | based art pieces | Links | , , | | |
| | | Build on | (Art) | | | Persuasive | |
| | Safer Internet | students' | | Analysing data | | writing for | |
| | Day | knowledge | | (Maths) | | creating adverts | |
| | | from last half | | | | (English Text) | |
| | | term | | | | | |
| | Creating | | | | | | |
| | presentations | (History) | | | | | |
| | about Bletchley | | | | | | |
| | park in WWii | | | | | | |
| | (History) | | | | | | |
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