

Computing 2020 - 2021

School Drivers

21st Century Citizen
Understanding of the wider world
Sense of community rights and responsibilities

Independent Learners
Independent
Resilient
Able to solve problems
Creative and curious
Able to think critically

<p>Reception</p>	<p>IT <i>Core Learning:</i> Navigate an iPad using the central button and touch screen Swipe the screen on a touch screen iPad Zoom in and out on a touch screen iPad</p> <p><i>Vocabulary:</i> iPad, navigate/move, swipe, central button, screen, zoom in, zoom out</p>	<p>Digital Literacy Follow Smartie the Penguins advice song <i>Core Learning:</i> To know where to go for help and support with online issues</p> <p><i>Vocabulary:</i> Online, e-safety, help, support</p>	<p>Computer Science (Beebot) Forwards, backwards, left and right <i>Core Learning:</i> To know the 4 basic commands to program a robot device</p> <p><i>Vocabulary:</i> Commands, instructions, forwards, backwards, left, right, turn, program, robot, device</p>	<p>Digital Literacy Jesse & Friends Episode 1 <i>Core Learning:</i> To know what videos are appropriate and inappropriate to watch</p> <p><i>Vocabulary:</i> appropriate, inappropriate</p>	<p>IT <i>Core Learning:</i> To navigate a mouse to open programmes on a laptop To begin to type the letters of the alphabet using a lowercase keyboard To begin to type numbers using a lowercase keyboard</p> <p><i>Vocabulary:</i> Keyboard, lowercase, type</p>	<p>Digital Literacy Username Password <i>Core Learning:</i> To know that you everyone has their own personal ID that should not be shared</p> <p><i>Vocabulary:</i> Username, password, ID</p> <p>IT <i>Core Learning:</i> To use the full stop key and space bar on a lowercase keyboard To log on to a laptop using own ID</p> <p><i>Vocabulary:</i> full stop, space bar, ID</p>
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Useful Links:

[Smartie the Penguin](#)

Jessie and Friends Think U Know - <https://www.thinkuknow.co.uk/professionals/resources/jessie-and-friends/> **Episode 1 Watching videos** (4-5years)

<p>Year 1</p>	<p>Digital Literacy Smartie The Penguin (Recap) Common Sense Media Core Learning: To know the golden rules for staying safe online To consider how technology makes you feel</p> <p>Vocabulary: Online, safe, rules, e-safety, online safety</p> <p>IT Core Learning: To log on/off a laptop correctly To confidently type all lowercase letters of the alphabet and numbers using a standard keyboard</p> <p>Vocabulary: Log on/off, laptop, type, lowercase, keyboard,</p>	<p>Computer Science Forwards, backwards, left and right turns Plan a journey around a simple route E.g. Make routes around local landmarks - a map of our locality Sequence a nursery rhyme (pictures) Put the seasons in the correct order</p> <p>Core Learning: To know how to program a robot to follow a simple sequence of instructions To make simple sets of instructions for a robot to follow</p> <p>Vocabulary: Program, Beebot, sequence, instructions, forwards, backwards, left, right</p> <p>IT Core Learning: To use the Caps Lock key to type all the capital letters of the alphabet using a standard keyboard To talk about uses of computers in own homes</p> <p>Vocabulary: Uppercase, CAPSLOCK</p>	<p>Digital Literacy Lee and Kim Core Learning: To understand what personal information should not be shared and that I have the right to say 'No'.</p> <p>Vocabulary: personal information, sharing, rights</p> <p>IT Topmarks Millie's Mouse Skills Core Learning: To save work in a prepared file using 'Save as' To be able to navigate around the screen with a mouse Use backspace, enter and delete Use the shift key</p> <p>Vocabulary: Save, Save-as, files, mouse, navigate/move,</p>	<p>Computer Science E.g. The Bee Bot will go... Core Learning: To be able to make simple predications about an algorithm and a program</p> <p>Vocabulary: Algorithm, predict</p> <p>IT Core Learning: To increase speed of typing</p> <p>Vocabulary: Type, increase, speed</p>	<p>Digital Literacy Jesse & Friends Episode 2 Core Learning: To know which pictures are appropriate to share with others online</p> <p>Vocabulary: Appropriate</p> <p>IT J2E data Core Learning: To present data in a table To use the shift key</p> <p>Vocabulary: Present, data, table, shift, key</p>	<p>Computer Science Beebots Core Learning: To be able to change (debug) a program to improve the route</p> <p>Vocabulary: Change, debug, improve, route</p> <p>IT Core Learning: Begin to explore different Microsoft packages and identify their main purpose</p> <p>Vocabulary: Microsoft package, purpose</p>
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Useful Links:

[Smartie the Penguin](#)

Common Sense Media <https://www.commonsense.org/education/digital-citizenship/lesson/how-technology-makes-you-feel>

Lee and Kim - CEOP <https://www.thinkuknow.co.uk/professionals/resources/lee-and-kim/>

Jessie and Friends Think U Know - <https://www.thinkuknow.co.uk/professionals/resources/jessie-and-friends/>

Internet Traffic Light - Common Sense Media <https://www.commonsense.org/education/digital-citizenship/lesson/internet-traffic-light>

<p>Year 2</p>	<p>Computer Science Sequence of 6-7 instructions: maze, point collecting Beebots - Make routes using precise instructions Probots - (More complex) turns, clockwise/anti-clockwise Core Learning: To know how to program a robot to achieve a set goal</p> <p>Vocabulary: Beebot, Program, Robot, Probot, Directions, Sequence, Quarter Turns, Half turns, Clockwise, Anti-Clockwise, Commands</p> <p>Digital Literacy Introduce Swiggle Core Learning: To know how to search safely online</p> <p>Vocabulary: Logging on, Search engine, Online, Offline, Internet, Website, WWW - world wide web</p> <p>IT - Word Core Learning: To be able to save, retrieve and print work To change font, size and colour of writing To use bold, underline and italics functions</p> <p>Vocabulary: Tab, Save, Save As, retrieve, Print, Mouse, curser, Font size, colour, Bold, Italics, Underline</p>	<p>Digital Literacy Digi Duck Common Sense Media Core Learning: Know that they should tell a trusted adult if they are upset or worried about anything on a device</p> <p>Vocabulary: Digital citizen</p> <p>IT - Word Core Learning: Know how to change layout of paper Insert Bullet points</p> <p>Vocabulary: layout, landscape, portrait, bullet points</p> <p>Digital Videos and Imagery Core Learning: To take digital photos and edit To be able to combine simple texts and graphics To Take a screen shot on an iPad and edit</p> <p>Vocabulary: Digital photos, edit, crop, rotate, screen shot/grab, graphics</p>	<p>Computer Science Scratch Junior Travel Planning - <i>Creating an algorithm and changing it into code</i> http://code-it.co.uk/scratchjrtravelling Alex - Sequencing instructions and debugging to solve simple problems Dasiy Dino Core Learning: Begin to use block programming to complete a simple program</p> <p>Vocabulary: Block programming, algorithm, debugging</p> <p>IT - PowerPoint Core Learning: Insert and change the size of shapes</p> <p>Vocabulary: PowerPoint, insert, change, edit, bigger, smaller</p>	<p>Digital Literacy That's Private Digital Trail Hector's World Core Learning: Know what personal information is and that they should never share this with anyone they don't know.</p> <p>Vocabulary: Personal, Private, sharing information, digital trail</p> <p>IT - PowerPoint Core Learning: Insert a text box Core Learning: Align writing to the left, centre and right</p> <p>Vocabulary: Insert, text box, Align, Left, Centre, Right</p>	<p>Computer Science A route on a BeeBot/Probot maze or use more complex routes E.g. map of UK on the floor. Can you drive from London to Newcastle? Alex - Sequencing and debugging harder problems (L10 plus) Scratch Junior - Dance Planning http://code-it.co.uk/scratchjrdance Core Learning: Be able to debug more complex problems</p> <p>Vocabulary: Debugging, sequencing</p> <p>IT - Publisher Start from prepared document/images e.g. Clipart then progress onto downloading from the internet Core Learning: Be able to add and create simple images</p> <p>Vocabulary: Create, add, edit, images</p>	<p>Digital Literacy We the digital citizens Jesse & Friends Core Learning: Know devices that enable direct communication between people through images and text</p> <p>Vocabulary: Devices, direct communication, images, text, video</p> <p>Digital Videos and Imagery Core Learning: Narrate a video/animation using own voices</p> <p>Vocabulary: Narrate, video, animation, clip, edit</p>
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Useful Links:

[Swiggle - safe search engine](#)

Digi Duck - <http://www.kidsmart.org.uk/teachers/ks1/sourcesduck/projet/digiduck-ebook.pdf>

[Putting a stop to online meanness - Common Sense Media](#)

<https://www.commonsense.org/education/digital-citizenship/lesson/putting-a-stop-to-online-meanness>

[\(Keyboard Activity\)](#) <http://primarygamesarena.com/Play/Keyboard-2030>

That's Private - Common Sense Media

<https://www.commonsense.org/education/digital-citizenship/lesson/thats-private>

Digital Trails - Common Sense Media

<https://www.commonsense.org/education/digital-citizenship/lesson/digital-trails>

CEOP - [Hector's World](#)

<https://www.thinkuknow.co.uk/Teachers/Resources/>

We the Digital Citizens - Common Sense Media <https://www.commonsense.org/education/digital-citizenship/lesson/we-the-digital-citizens>

Jessie and Friends Think U Know - Episode 3 Playing Games <https://www.thinkuknow.co.uk/professionals/resources/jessie-and-friends/>

<p>Year 3</p>	<p>Digital Literacy Smart Crew videos Core Learning: To use a simple password</p> <p>Vocabulary: Password</p> <p>IT PowerPoint Core Learning: To know how to open shared documents (Comp. shared drive, iPad Airdrop) To be able to organise their personal folder effectively To know how to use a Spellcheck function To combine software (including the internet) to research/collect and present data</p> <p>Vocabulary: Shared documents, spellcheck, combine, software, research, collect, present</p>	<p>Digital Literacy Common sense media - Rings of responsibility Core Learning: To know what to do if exposed to unpleasant material online</p> <p>Vocabulary: Responsibility, material, unpleasant</p> <p>Computer Science Scratch Junior Pathway Core Learning: To be able to use a block program to make a simple programme using sequencing and timing</p> <p>Vocabulary: block program, sequencing, timing</p>	<p>Digital Literacy Device free moments Common Sense Media This is me Common Sense Media - my online presence Core Learning: To know that using technology can sometimes be inappropriate</p> <p>Vocabulary: technology, inappropriate, online presence</p> <p>IT Excel Word/Publisher Core Learning: To insert a table of data using an appropriate Microsoft Package To vary line spacing To insert page numbers To continue to develop speed of typing using both hands</p> <p>Vocabulary: Insert, data, Microsoft, Package, vary, spacing</p>	<p>Digital Literacy Is seeing believing? Common sense media Core Learning: To know which websites are useful and begin to understand that not all may be trustworthy</p> <p>Vocabulary: useful, trustworthy</p> <p>Computer Science Scratch - simple animation or dressing up game Scratch Goldshape Code (learn) - Frozen, Star Wars Activities Core Learning: To input sets of instructions To use a program to draw regular 2D shapes</p> <p>Vocabulary: Instructions, shapes, input</p>	<p>Digital Literacy Core Learning: To use a search engine to find information on given words</p> <p>Vocabulary: Search engine</p> <p>IT Wrap the picture/image Word/Publisher/ PowerPoint iPad Publisher Basic - Poster or Certificate Core Learning: To insert a picture onto a document from own camera roll To move a picture to an appropriate position To take images and edit to create an illustrated description To explore different design sets using publisher</p> <p>Vocabulary: Camera roll, position, wrap, edit, illustrate, design sets</p>	<p>Digital Literacy Core Learning: To identify the journey a picture goes on once it is sent online</p> <p>Vocabulary: Online</p> <p>Computer Science Scratch Junior My Story Scratch Magic Carpet Core Learning: To independently debug basic mistakes (This skill will be learned from repeated programming tasks) To begin to use conditionals</p> <p>Vocabulary: Debug, conditionals</p>
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Useful Links:

Smart Crew Videos and lesson resources. Covering a range of areas)
 Video :- <http://www.childnet.com/resources/the-adventures-of-kara-winston-and-the-smart-crew>
 Is seeing believing? Common Sense Media Unit <https://www.commonsense.org/education/digital-citizenship/lesson/is-seeing-believing>
 Rings of Responsibility <https://www.commonsense.org/education/digital-citizenship/lesson/rings-of-responsibility>
 Device-Free Moments Common Sense Media <https://www.commonsense.org/education/digital-citizenship/lesson/device-free-moments>
 This is Me Common Sense Media My online presence <https://www.commonsense.org/education/digital-citizenship/lesson/this-is-me>
 Scratch Junior Pathway <http://code-it.co.uk/pathway>
 SCRATCH - Simple animation or Dressing up game <http://code-it.co.uk/scratch/dressingup/dressingupoverview>
 Scratch - Drawing shapes <http://code-it.co.uk/goldshape/> up to basic procedures
 Hour of Code Frozen, Star Wars activities <https://code.org/learn>
 Scratch Junior My Story <http://code-it.co.uk/mystory>
 Scratch Magic Carpet http://code-it.co.uk/carpet_or_Travel_Europe

<p>Year 4</p>	<p>Digital Literacy Lexia, Timestable Rockstars, Mathletics Password Power Up Core Learning: To be able to log in and out of websites used at school using a password</p> <p>Vocabulary: Password, login, logout</p> <p>IT PowerPoint Core Learning: To be able to organise their personal folder effectively To include some elements of timing/sequence/transitions to presentations To be able to deliver a simple presentation to their peers</p> <p>Vocabulary: Timing, sequence, transition, presentation</p>	<p>Digital Literacy Core Learning: To understand that people may not be who they say they are online</p> <p>Vocabulary: Online safety</p> <p>Computer Science Scratch Smoking Car Kodu - Build a simple world and program Kodu so that it can be controlled with keys Hour of code Core Learning: To be able to explain how their program works This could be done by annotating screen shots To be able to use a program to sequence, use conditionals and a variety of inputs and outputs</p> <p>Vocabulary: Sequence, Variety of inputs and outputs, conditionals</p>	<p>Digital Literacy Common Sense Media - My Media choices Core Learning: To know that it is important for health to have a balance of online and offline activities</p> <p>Vocabulary: Balance, online, offline</p> <p>IT Excel Word/Publisher Core Learning: To edit a table of data to create 'auto sum' total columns and rows To insert a header and footer To replace a word in a document using the 'replace' tab To continue to develop using the right- hand side of the mouse (copy, paste, insert, edit work etc.)</p> <p>Vocabulary: Columns, rows, header, footer, replace,</p>	<p>Digital Literacy Trust me Reliability of websites A creators rights and responsibility Core Learning: To know how to compare information from different websites and know that some sites may show bias</p> <p>Vocabulary: Compare, bias</p> <p>Computer Science Drawing repeated squares to make a pattern Scratch - continue basic work started in Y3 but include work on procedures and nested loops Pro Bot - Using loops and nested loops to create geometric patterns Core Learning: To know how to break sets of instructions into short steps to achieve goal</p> <p>Vocabulary: Instructions, steps, goals</p>	<p>Digital Literacy Core Learning: To know what the key words are to enter in to a search engine to find what they want</p> <p>Vocabulary: Key words, search engine</p> <p>IT Word/Publisher/ PowerPoint iMovie Publisher Postcard or card Core Learning: To insert a digital picture To create a digital movie clip using still images To explore different design sets using publisher</p> <p>Vocabulary: Insert, digital image/image/movie clip,</p>	<p>Digital Literacy Google - Be internet legends Range of tasks (Repeated in Year 5 with different task) Core Learning: To know that pictures shared online can end up with strangers</p> <p>Vocabulary: Shared, online</p> <p>Computer Science Scratch Goldshape has example code that children can modify Core Learning: To be able to modify their program and be able to predict the effects of any changes</p> <p>Vocabulary: Modify, predict, effect, changes</p>
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Useful Links:

Password Power Up Common Sense Media <https://www.commonsense.org/education/digital-citizenship/lesson/password-power-up>

Trust Me <https://www.lgfl.net/online-safety/trust-me>

Reliability of Websites www.allaboutexplores.com

A Creators Rights and Responsibilities Common Sense Media <https://www.commonsense.org/education/digital-citizenship/lesson/a-creators-rights-and-responsibilities>

Common sense media - my media choices <https://www.commonsense.org/education/digital-citizenship/lesson/my-media-choices>

Google - Be Internet Legends https://beinternetlegends.withgoogle.com/en_uk/toolkit

Scratch Smoking Car http://code-it.co.uk/scratch/smoking_car/smokingcaroverview *extension Music Maker*

Hour of Code <https://studio.code.org/flappy/1>

Scratch - Shapes <http://code-it.co.uk/goldshape/>

<p>Year 5</p>	<p>Digital Literacy Online password checker Core Learning: To know how create a strong password To be able to change a password</p> <p>Vocabulary: Create, Change</p> <p>IT PowerPoint Core Learning: To be able to organise their personal folder effectively To be able to deliver an interactive presentation to peers To use CTRL shortcut keys to cut, copy, paste and save</p> <p>Vocabulary: Interactive presentation, shortcut, cut, copy, paste, save</p>	<p>Digital Literacy Play like share CEOP What is cyberbullying? Common Sense Media Think u Know - Livestreaming, good and bad attention Core Learning: To know how to report concerns online</p> <p>Vocabulary: Report, concerns</p> <p>Computer Science Scratch - Build a goldscene where code is modified to have different effects. Or helicopter ride PowerPoint - Take a simple working hyperlink presentation and customise by adding additional content and navigation Kodu - Shooting fish activity which requires additional code to turn it into a working game Core Learning: To use customisation to change a working program</p> <p>Vocabulary: Customise</p>	<p>Digital Literacy Finding my media balance Common Sense Media Core Learning: To know that it is important for health to have a balance of online and offline activities</p> <p>Vocabulary: Balance, online, offline</p> <p>IT Excel Word/Publisher/ PowerPoint Core Learning: To create a simple formula To rename different tabs according to information To add data into a prepared or partially prepared spreadsheet to answer questions and understand about rows, columns and cells To add comments to a document To vary indentation of paragraphs</p> <p>Vocabulary: Formula, rename, tab, spreadsheet, rows, columns, cells, comments, indentation</p>	<p>Digital Literacy Common Sense Media - you won't believe this Core Learning: To know that search results can be manipulated by sponsorship and advertising</p> <p>Vocabulary: Results, manipulated, sponsorship, advertising</p> <p>Computer Science Scratch - Slug trail Lightbot - loops section Core Learning: To use loops to achieve goals</p> <p>Vocabulary: Loops, achieve, goals</p>	<p>Digital Literacy Google Search Lessons Core Learning: To effectively use a search engine to find multiple criteria using AND/OR to refine searches</p> <p>Vocabulary: Search engine, multiple, criteria, refine</p> <p>IT Word/Publisher/ PowerPoint pixlr.com/editor iMovie Publisher Leaflet or menu Core Learning: To know how to arrange a picture using the 'bring forward' and 'send backwards' function To edit and enhance a portrait To create a digital movie using still pictures, video clips, & music To explore different design sets using publisher</p> <p>Vocabulary: Arrange, bring forward, move backwards, edit, enhance</p>	<p>Digital Literacy Google - Be internet legends Core Learning: To know that pictures shared online can end up with strangers</p> <p>Vocabulary: Shared</p> <p>Computer Science Create interactive story using slides in PowerPoint, which has different ending depending on the choices made Scratch - Crab Maze Kodu - Create a game where the character gets points by collecting coins Core Learning: To use variables, conditional sentences and external triggers and loops to achieve set goals</p> <p>Vocabulary: Variables, conditional sentences, external triggers, loops, goals</p>
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Useful Links:

Online Password Checker [How secure is my password?](#)
Common Sense Media You won't believe this! <https://www.commonsense.org/education/digital-citizenship/lesson/you-wont-believe-this>
Google Search Lessons <https://sites.google.com/site/qwebsearcheducation/lessonplans>
Play Like Share - CEOP <https://www.thinkuknow.co.uk/professionals/resources/play-like-share/>
What is Cyberbullying? Common Sense Media <https://www.commonsense.org/education/digital-citizenship/lesson/whats-cyberbullying>
Livestreaming - good and bad attention <https://www.thinkuknow.co.uk/professionals/resources/live-streaming/>
Finding my media balance Common sense media <https://www.commonsense.org/education/digital-citizenship/lesson/finding-my-media-balance>
Google - Be Internet Legends https://beinternetlegends.withgoogle.com/en_uk/toolkit
Scratch - <http://code-it.co.uk/goldscene>. Or Helicopter Game <http://code-it.co.uk/goldgame/>

Scratch -Slug Trail <http://code-it.co.uk/scratch/slugtrail/slugtrailoverview>

Crab Maze <http://code-it.co.uk/scratch/crabmaze>

<p>Year 6</p>	<p>Digital Literacy Google Internet Legends & Play like share activities Core Learning: To know that hacking or misusing someone's account is illegal</p> <p>Vocabulary: Hacking, misusing, account, illegal</p> <p>IT PowerPoint/Word/ Publisher Core Learning: To be able to organise their personal folder effectively To use knowledge of Microsoft Packages to choose an appropriate package for a task To analyse graphs</p> <p>Vocabulary: Analyse, appropriate, graphs</p>	<p>Digital Literacy Game on Digital friendships Core Learning: To know how to reduce the risks posed by social media by managing their friends and privacy settings</p> <p>Vocabulary: Reduce, risk, posed, social media, privacy, settings</p> <p>Computer Science Light Bot (additional levels not completed in Yr5 will reinforce learning) Cargo Bot - Easy levels Core Learning: To use conditional sentences (when/then) to program objects</p> <p>Vocabulary: Conditional sentences, program</p>	<p>Digital Literacy Core Learning: To plan online and offline activities to create a healthy balance</p> <p>Vocabulary: Online, offline, balance</p> <p>IT Excel Word/PowerPoint/ Publisher Core Learning: To apply the use of formulas to real life examples To insert a hyperlink</p> <p>Vocabulary: Formulas, hyperlink</p>	<p>Digital Literacy London Grid for Learning Google search - range of lessons and materials (Follows on from Year 5). Google Landing, Mixed Media and Quick Finds. Core Learning: To know how to validate information found through searches and by checking more than one source To understand plagiarism</p> <p>Vocabulary: Validate, information, searches, source, plagiarism</p> <p>Computer Science E.g. Trigger winning (If loops >5 then...) Kodu - create racing game with time Scratch change machine Core Learning: To use mathematical expressions when constructing conditionals</p> <p>Vocabulary: conditionals</p>	<p>Digital Literacy Core Learning: To know that some news is 'fake'</p> <p>Vocabulary: News, fake</p> <p>IT Paint.net Use layers, add filters, select areas to modify, add text iMovie Publisher Newsletter Card and envelope Core Learning: To edit a picture to create digital artwork To create a digital movie using still pictures, video clips, music & voiceovers To apply taught skills to create own movie trailer To explore different design sets using publisher To import word documents into a publisher document</p> <p>Vocabulary: Edit, create, movie still, voiceovers, import</p>	<p>Digital Literacy You won't believe this Common Sense Media Core Learning: To know that it is illegal to post or view 'rude' images of children online</p> <p>Vocabulary: Illegal, post, view, rude, images online</p> <p>Computer Science Print and annotate the code for a programming project and explain any changes made that make the program better Core Learning: To be able to explain what a program might do and accurately predict the effect of changes</p> <p>Vocabulary: Program, accurately, predict, changes</p>
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Useful Links:

London Grid for learning - what can we "Trust" <https://www.lgfl.net/online-safety/trust-me>
 Google Search <https://sites.google.com/site/gwebsearcheducation/lessonplans>
<http://fakenews.lgfl.net>
 Game on <https://esafety.gov.au/education-resources/classroom-resources/gameon>
 Digital friendships Common Sense Media <https://www.commonsense.media.org/education/digital-citizenship/lesson/digital-friendships>
 You won't believe this! Common Sense Media <https://www.commonsense.org/education/digital-citizenship/lesson/you-wont-believe-this>

