

Year 3 – Computing

| Learning to be a Computer Scientist | Learning to be a Creator | Learning to be SMART – E-safety |
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| Cs1 - I can explain how simple algorithms work and begin to spot errors by testing. | Cr1 - I can use basic computer skills e.g. save, open etc. | Es1 - I can understand that my accounts and passwords keep my information safe and private. |
| Cs2 - I can create and debug an algorithm using the move, rotate and repeat commands. | Cr2 - I can use the CTRL key to use key commands. | Es2 - I can understand the term identity theft and know how to protect myself. |
| Cs3 - I can create and debug algorithms that draw regular polygons and patterns. | Cr3 - I can edit text by changing case, aligning, using bullet points/ numbers. | Es3 - I know who/where to go to when I have concerns. |
| Cs4 - I can realise the importance of accurate instructions. | Cr4 - I can insert and format text boxes. | Es4 - I can explain the SMART rules and apply them to actual situations. |
| | Cr5 - I can lay out a page effectively by inserting, ordering and grouping objects as well as formatting. | Es5 - I can begin to understand what it means to be a good digital citizen. |
| | Cr6 - I can understand how a search engine works and how word order can effect search results. | Es6 - I can understand the effect of cyberbullying and know what to do if I experience this. |
| | Cr7 - I can create a hyperlink to a reliable/saved page. | |
| | Cr8 - I understand the principles of animation and create an animation using gradual frame changes. | |
| | Cr9 - I can present data effectively using a range of software. | |

Year 3 Topic Coverage

| Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Cr1, Cr8 | Cr3, Cr4, Cr5 | Cr2 Es5 | Cs1, Cs2, Cs4 Cr9 Es5 | Cr4, Cr6, Cr7 Es6 | Cs1, Cs2, Cs3, Cs4 Es6 |
| Es1, Es2, Es3, Es4 | | | | | |
| Vocabulary | | | | | |
| Animation, Asset, File menu, Film, FPS, Frame, Frames per second, Functions, Motion, Open, Open as, Save, Save as, Stop motion | Bring to Front, Bullet points, Format, Group, Layers, Layout, Lists, Moveable, Numbering, Order, Organise, Ribbon, Send to Back, Stylise, Textbox, Theme, Ungroup | Bold, Control, CTRL, CTRL keys, Digital Citizen, Efficient, Italic, Shortcut, Underlines, Upstanding Digital Citizen | Columns, Digital Citizen, Efficient, Error, Excel, Format, Improve, Organise, Precise, Predict, Presentable, Presented, Repeat, Repetition, Rows, Shorter, Specific, Table, Test, Upstanding Digital Citizen | Advert, Advertisement, Anonymous, Bias, Contacts, Copy, Cyber Bullying, Format, Hyperlink, Insert, Key words, Moveable, Paste, Popularity, Relevant, Right click, Social Media, Sponsored, Stylise, Textbox, Theme, Wikipedia | Anonymous, Combining, Contacts, Cyber Bullying, Degrees, Efficient, Error, Improve, Motion, Pattern, Polygon, Precise, Predict, Repeat, Repetition, Right-angles, Rotation, Shorter, Social Media, Specific, Sprite, Test |
| Accept, CEOPs, Fraud, Fraudster, Identity theft, Meet, Phishing, Protection, Reliable, Safe, Security, Tell | | | | | |
| I will learn... | | | | | |
| <p>How to access a computer's basic functions like opening, saving etc.</p> <p>That videos are a series of changing pictures called frames. That when we see a video we are seeing 24 frames per second. That small changes in the pictures give the illusion of movement.</p> | <p>How to edit text using the home ribbon on Word/Publisher. That bullet points and numbers can be used to make lists clearer.</p> <p>That special boxes can be added to hold text. That text boxes can be moved around unlike normal text. That text boxes can be formatted like pictures and writing.</p> <p>That objects can be grouped. How to group and ungroup. How to order layers of objects. That pages can look neat or messy depending on how you lay them out.</p> | <p>That some computer functions can be accessed using the keyboard. That CTRL + S will save. That Ctrl + B will make writing bold. That Ctrl + I will make writing italic. That Ctrl + U will make writing underlined.</p> <p>That by using the internet you are a digital citizen. That to be a good digital citizen means to be kind online and use the SMART rules to guide your online actions.</p> | <p>How to read through algorithms line by line. How to spot errors by reading the code.</p> <p>That a repeat command can make code more efficient. How to build an efficient algorithm using repeats.</p> <p>That when instructions are unclear or inaccurate then unexpected things can happen.</p> <p>That data can be presented using lots of different programs. How to present data using a digital device.</p> <p>That by using the internet you are a digital citizen. That to be a good digital citizen means to be kind online and use the SMART rules to guide your online actions.</p> | <p>That special boxes can be added to hold text. That text boxes can be moved around unlike normal text. That text boxes can be formatted like pictures and writing.</p> <p>That the best information isn't always first on search engines. That search engines look for key words in websites when searching. That websites can pay to appear higher on the list. That order words are written in the search engine can affect results.</p> <p>That hyperlinks direct you to a file or website. How to create a hyper link.</p> <p>That bullying can happen on digital devices as well as real-life.</p> | <p>How to read through algorithms line by line. How to spot errors by reading the code.</p> <p>That a repeat command can make code more efficient. How to build an efficient algorithm using repeats.</p> <p>That combining movement commands and repeats can allow you to draw shapes. That different shapes need different size rotations.</p> <p>That when instructions are unclear or inaccurate then unexpected things can happen.</p> <p>That bullying can happen on digital devices as well as real-life. That it is hard to escape from cyber bullying.</p> |

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| | | | | <p>That it is hard to escape from cyber bullying. That we should only say things online that we would say in person. That if you are being cyberbullied you should speak to an adult you trust.</p> | <p>That we should only say things online that we would say in person. That if you are being cyberbullied you should speak to an adult you trust.</p> |
| <p>That a password keeps information safe and sharing the password is like giving away all of your information.</p> <p>That people can pretend to be other people online. That people can use my information to pretend to be me. That this can lead to serious problems if you don't realise in time.</p> <p>That you should go to a trusted adult if you have problems on the internet. That if you can't find a trusted adult you can go to CEOPs.</p> <p>That S stands for safe, M stands for meet, A stands for accept, R stands for Reliable and T stands for tell. How to apply these rules to real-life situations.</p> | | | | | |