# The Ellis - Computing Curriculum Map

Each year group to have a balance of Computer Science, Digital Literacy and IT.

Particular attention to be given to online safety as a thread throughout the year groups. To be picked up through PSHE as well. Also, assemblies and any after school clubs where children go online.

YEAR A

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|   | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Year One | Fire! Fire!Y1To use a paint program to paint a picture of the Great Fire of London.Y2 - use the Y2 NCCE lesson plans to see progression and what skills will be needed.<https://drive.google.com/drive/folders/1QHPLZcrioPM51UM30wquesfjOBdG1z1C> | Party! Party!Y1 Project EvolveY2 - also look at Y2 resources. All found on <https://projectevolve.co.uk/toolkit/> | Out of this WorldTwinkl Scratch Jr lessons Scratch junior<https://www.scratchjr.org/>Space scene with rocket flying through sky. | ChocolateY1Y2J2e.dataHandling data - create bar chart of favourite chocolate bars.<https://www.j2e.com/j2data/>Film children presenting their findings + film their advert | Into the WoodsY1Y2Barefoot computing - Beebot Basics and Beebot 1,2,3.Beebot - To create instructions for a map of the route to Granny’s house avoiding trees/obstacles. To create similar maps for other fairy stories.  | Oh It’s a Jolly HolidayY1 - <https://drive.google.com/drive/folders/1z2Jq0rRL7yNmZ7tvBZjMUOyF5z5ql9Ld>Y2To use word processing to type a postcard. |
| Year Two |
| Year Three | EgyptiansY3Y4Connecting computers unit History lesson - hieroglyphics: create a code sheet. Send hieroglyphic messages. | Stone/Iron AgeY3Y4Use green screen to present information about the stone ageCheck out Seymour and Learhn’s website. | Coal MineY3Y4Beebot/scratch to get the coal out of the mine avoiding obstacles Block one lighting the path. | Build itY3Y4Stop frame animation using lego | CoastsY3Y4Desktop publishing to create leaflets for seasides.Google earth.Pic Collage/Book Creator/ PowePoint/ Google Slides | VIPY3Y4Children to create surrealist images to represent a famous person- info tech 1 Kapow |
| Year Four |
| Year Five | VictoriansY5+Y6 - Search Technologies (IT)Barefoot - <https://www.barefootcomputing.org/resources/selecting-search-activity>NCCE - <https://docs.google.com/document/d/1MT2pOJTg1VLUYe7imePTRhpj1E8ntwrueprPiC1DVyM/edit>Link to DL and Online Safety - Copyright and ownership (Project Evolve resource coming soon) | Terrible TudorsY5+Y6Build on Autumn 1 learning to search for information on Sir Francis Drake. Create fact file/newspaper report/ blog post about the explorer. DL - evaluate digital content: Use <https://www.allaboutexplorers.com/explorers/drake/> to evaluate online information.Use technology safely - use <https://x-ray-goggles.mouse.org/> to show how webpages can be edited. **Link to fake news.** | RainforestsY5+Y61st half term - (IT) Collect data on weather - rainfall. Use spreadsheets to record data and produce graphs. Add data to create an infographic.2nd Half term - (CS) Use the micro:bit to look at data handling. <https://microbit.org/lessons/> | Lest We Forget (WW2)Y5+Y61st half term - Exploring different codes e.g. barcodes, QR codes and create a scavenger hunt with these.<https://www.barefootcomputing.org/resources/code-cracking>6 lesson presenting information (DL + IT strand)Introduces pupils to the history of computing and, in particular, how computers were used as code-cracking devices in World War II. Pupils learn about Alan Turing and become code crackers themselves. They then create their own movie about code cracking.2nd half term - (CS)Create an enigma code breaker or create morse code using the crumble or scratch.<http://code-it.co.uk/wp-content/uploads/2016/11/cp_morsecode_plan.pdf> |
| Year Six |

YEAR B

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|   | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Year One | Once Upon a TimeY1 + Y2 (CS)Barefoot computing - Beebot Basics and Beebot 1,2,3.Beebot - To create instructions for a map of the route to Granny’s house avoiding trees/obstacles. To create similar maps for other fairy stories. Progression: Add extra obstacles and use more evaluation.  | Toy StoryY1+Y2Friendships - online safety and treating others kindly. Use Project Evolve/Ed for a Conn. World. | What a Hero!Y1+Y2 (IT)How technology makes jobs easier.Technology all around us - people who help us. How do computers work? What is a computer? NCCE | Zoom!Y1 +Y2 (CS)Twinkl Scratch Jr lessons Scratch junior<https://www.scratchjr.org/>Vehicles moving across the city.Progress onto speeding up the vehicle or adding multiple vehicles. | Castles, Knights and DragonsY1+Y2 (IT+DL)Puppet Pals - appMove characters around the screen. Get them to have a conversation.Chatterpix - animate a character related to the topic. Evaluation - which app was best?  | Go Wild!Y1 + Y2 (IT)Data Handling Unplugged version - guess who.Branching Databases - unplugged: Ask Yes/No questions. Children move to their respective answers.<https://www.j2e.com/j2data/>Look at <http://www.zookazam.com/> |
| Year Two |
| Year Three | Rotten RomansY3+Y4 (IT + DL)E-book- interviewing Roman CenturionBook Creator | IndiaY3+Y4 (IT)Data HandlingMicro:bit - measures light. England v IndiaMeasuring temp - iPad or websites.Create (Y3) bar chart (Y4) spreadsheet and then create bar chart. Use this data to create leaflet about India. | Vicious VikingsY3+Y4 (CS)Introduction to Scratch (Y3 - continue with Scratch Jr). | PiratesY3+Y4 (DL)Staying safe online Passwords Age restrictions - PEGI ratingsCEOP, ICO, Project Evolve | Extreme EarthY3+Y4 (IT)Green Screen - Weather reports | DinosaursY3+Y4 (CS)Augmented RealityQuiver VisionThe Natural History Museum - virtual tourKUBO/Scratch - change the sprite to dinosaur. Make the sprite move around the screen. Recognise an error and debug. |
| Year Four |
| Year Five | Through the DecadesY5+ Y6 (IT)Term 1 - The History of Computing - Babbage/Ada Lovelace/ Alan Turing/ Tim Berners LeeSee information on Bletchley Park and also here: <http://hoc.lgfl.org.uk/loading.html>Term 2 - Networks and invention of the internet and the WWW.Barefoot - <https://www.barefootcomputing.org/resources/network-hunt-activity>NCCE -  | It’s All Greek to MeY5+Y6 (DL+IT)Collaborate on a Google Slides presentation.Group work - research and create individual slides that culminate in a group slideshow.Incorporate links, images, videos etc.Link to safe search and copyright.  | Amazing AmericasY5+Y6 (IT)Collect data on weather - rainfall. Use spreadsheets to record data and produce graphs. Add data to create an infographic.Also look at Seymour and Learn - Mayan village | Over the Top (WW1)Y5+ Y6Create a game on Scratch - to use variables and selection.Green Screen?? |
| Year Six |