

Barlby Computing Planning 2023- 2024

| Strands | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--|--|---|---|--|---|--|
| topic | All about me | Towers, Tunnels and turrets | Hola Amigo! | Ancient Greece | Star Gazers | The Victorians |
| 1 st half Autumn | DL Smartie the Penguin (2 lessons - Know to ask for help) Childnet resource IT Robot Words (2/3 lessons - Create a story with a word bank) Busy Things, JIT | CS Demolition robot (4 lessons - Algorithms) Floor robot, JIT, Busy Things CS How does that work? (4 lessons - Everyday devices) Unplugged | DL Would I lie to you? (2 lessons - Checking facts) Encyclopedia websites, & BBC bitesize IT Do you like my presentation? (4 lessons - Develop & share a presentation) J2e5, j2webby (school blog resource) Link to topic and create presentation about animals or Europe if studying | IT My exciting world landmarks (3/4 lessons - Finding information online) J2e5, 2Publish+ Presentation software, NEN gallery, Child friendly search engines, BBC bitesize Link to looking at difference between modern and ancient Greece CS Searching the web (2 lessons – Understanding how a search engine works) Pupil email Link to research for ancient Greeks | DL Internet scenario cards (1 lesson / scenario) Unplugged IT Simply Delicious (5 lessons - Using formulae to model costs of a meal) MS Excel® Could rewrite activity to have information about planets and distances to explore using a spreadsheet model rather than a curry? | DL Are you a Cyber Superhero? (2/3 lessons - Making good online decisions) Comic Maker, presentation software IT Do you agree? (3 lessons - Create & share a presentation to persuade) J2e5, j2Webby (school blog software) Take an aspect of Victorian schooling to debate and persuade |
| Resources to support | LGfL EYFS spotlight resources http://eyfs-spotlight.lgfl.net/all-about-me | Busy things history – castles and knights activities | | | Busy things science – Earth and space activities LGfL Switched on science Out of this world http://sos.lgfl.org.uk/topic.html?y=5&t=1 | Busy things Victorian activities within history |
| topic | Dinosaurs | Famous People | Captain caveman! | Save the planet! | Water | Blood heart |
| 2 nd half Autumn KIT LOAN HERE DO NOT MOVE UNITS | CS Journeys - Beebot Garden Walk (4 lessons - Program a route) Floor robots, iboard Planning a route for a dinosaur – make Beebots into dinosaurs? Dinosaur mat/ map CS I'm a problem solver (3 lessons - Using instructions) iboard, Busy Things | IT Getting to school safely (2/3 lessons - Create graphs & answer questions) JIT, J2vote DL Finding out about... (2 lessons - Finding information online) Any child friendly search engines Link to finding out about a famous person | CS Can your robot make shapes? (4 lessons - Algorithms) iboard, floor robots (journey of a hunt?) OR CS Create a Kodu (6 lessons – programming an onscreen object) Kodu | CS I can make a game using j2code (5/6 lessons) Program a simple game) J2code – on theme of saving the environment IT I can rap! (5 lessons - Writing & recording a rap) Audio network, Audacity, school podcast channel Make a rap/ music track to encourage saving resources and the planet | CS Starting with Scratch (4 lessons - on-screen programming) Scratch Use minibeast sprites to create scratch animations/ activities CS What's Wrong here? (3 lessons - Syntax & logic errors) BBC bitesize, Scratch lesson from year 6 but links to water cycle | CS Robot Rampage! (5 lessons - Program mBots) mBot robots / Makeblock software You may need to follow the Y5 unit of work for mBots. CS Searching, Searching (2/3 lessons - How a search engine 'works') BBC bitesize, CookIT from NEN, Barefoot resources |

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| Resources to support | http://dinosaurs.lgfl.org.uk/ D and K find out https://www.dkfindout.com/us/dinosaurs-and-prehistoric-life/ | D and K find out https://www.dkfindout.com/us/sea/rch/famous-people/ | | | | Busy things science – the human body activities |
| topic | Great fire of London | Material world | Tremors | Chain Reaction | Mayans (Early Islamic civilization) | Frozen Kingdom |
| 1 st half Spring | CS Giving Instructions - Making toast (1 lesson - Programming devices) Unplugged CS I can code! (4 lessons - Programming on-screen) JIT, Tynker | IT Say no to graffiti! (3 lessons - Edit a photo & create a poster – recycling focus?) J2e5, 2Paint a Picture, word processing software, Publisher DL Let's send a message (2 lessons - Send & respond to messages) unplugged | DL Safe surfing with Dongle (2/4 lessons - SMART rules & personal information) BBC video, J2e5, IT I can make an animation (5 lessons - Create an animation using web tools) Animation software options Make an animation of a volcano eruption (using j2spotlight or JIT animate tool) | DL Internet search & presentation (4 lessons - Finding information & images & presenting to an audience) J2e5, j2Webby (school blog software) NEN gallery, Encyclopaedia websites Create a presentation about an aspect of the topic – bread? Changes to matter? | IT Can you finish my story? (2 lessons - Blog a story for others to finish) J2e5, j2Webby (school blog software) Alternative to story - create information and blog about Mayan civilization? Islamic civilization? DL Design a poster (3 lessons - Design a poster) J2e5, presentation software Design an information poster on topic focus | CS Simultaing environments (3 lessons Simulations) Linked to climate zones DL How fake is that? (3 lessons - Online media & its impacts on body image) Unplugged (PowerPoint® / optional presentation software) |
| Resources to support | LGfL Great fire of London activity http://stories.lgfl.org.uk/ | LGfL Switched on science Materials http://sos.lgfl.org.uk/topic.html?y=2&t=2 | Busy things Geography – Human and physical geography – volcanoes and earthquakes activities | | LGfL Maya resources http://maya.lgfl.org.uk/ | Polar exploration resource on LGfL http://polar.lgfl.org.uk/ Busy things science – living things and their habitats – global habitats activities Busy things Geography – Human and physical geography – polar regions activities |
| topic | Seasons | Let's get healthy | Ancient Egyptians | Bright lights big city | Time travelers | ID |
| 2 nd half Spring | DL How does my garden grow? (1 lesson - Find information online) BBC bitesize IT Cyberwalk (3 lessons - Creating a digital image) JIT, Painting & drawing software, Busy Things Use lively lines to design a garden in different seasons | DL Digi-ducks Dilemma (2 lessons - Making mistakes online) JIT or 2Publish+, presentation software IT Do you like my Blog? (2 lessons - Create content & comment on others' work) Perhaps design a healthy sandwich, meal, JIT, j2Webby (school blog resource) | IT Finding out about healthy habits (3 lessons - Databases) J2data, 2Investigate Link to topic of ancient Egypt and create a database about Egyptian gods CS Words words words (1 lesson - terminology) | IT Design an alien landscape (3 lessons - Editing photos) Pixlr Could use photographs of storms and lightening to edit for dramatic effect IT Weather Data (3/4 lessons - Collecting & analysing information) 2Investigate, j2data, MS Excel® | IT I can make an animation! (5 lessons - Create a stop frame animation) Animation software options Make an animation of the movement of an animal or the aging of a human? | DL Internet scenario cards (1 lesson / scenario) Unplugged CS Have fun with Scratch (4 lessons - Solving problems) Scratch |

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| | | | | Link to weather patterns in North America and comparison to UK? | | |
| Resources to support | <p>London transport museum https://www.ltmuseum.co.uk/learning/activities?cid=email_FINAL_TFLM092_Tfl_Craft_Club_Marketing-London+Transport+Museum</p> <p>D and K https://www.dkfindout.com/us/transportation/</p> | <p>Busy things Cooking and nutrition activities</p> | <p>LGfL ancient Egypt resources http://ancientegypt.lgfl.org.uk/</p> | <p>LGfL Switched on science Electricity http://sos.lgfl.org.uk/topic.html?v=4&t=5</p> | | |
| topic | Travel and transport | Beachcombers | Rainforests | Invaders and settlers | Off with her head! | A child's war |
| 1 st half Summer | <p>IT Design a plate (3 lessons - creating an image) Busy Things, JIT, Painting Drawing software (JIT use the 'town' background and add transport images) OR IT and DL Design a face (2 lessons – design an avatar)</p> <p>DL Sharing my iceberg work. (2 lessons - sharing work online – use the cars template in turtle to program and share work on parking a car?)</p> <p>JIT, j2Webby (or school blog software)</p> | <p>CS I can debug! (5 lessons - Programming on screen using simple commands) JIT Adapt to use the desert template in JIT</p> <p>DL Follow that footprint 1 lesson - Know we leave a 'digital trail' when on the internet) Unplugged</p> | <p>DL Internet scenario cards (1 lesson / scenario) Unplugged</p> <p>IT See and hear my mix (3 lessons – creating a photo presentation and adding music) Movie Maker or Photos on windows 10 and audio network Use theme of rainforest and match music to images</p> | <p>DL Internet scenario cards (1 lesson / scenario) Unplugged</p> <p>CS Dancing with Scratch (4 lessons - Programming events using selection) Scratch animation using own images dressed as Roman/Viking?</p> | <p>IT Let's design in 3D! (6 lessons - Design a sculpture/ dream house) SketchUp Make Create a plan of a Tudor house using sketch up</p> | <p>IT Party time! (4 lessons - Plan & cost a party) MS Excel® Use rationing and war time products instead of party menu?</p> |
| Resources to support | <p>TFL resources https://londonblog.tfl.gov.uk/category/activities/?cid=email_FINAL_TFLM092_Tfl_Craft_Club_Marketing-transport-themed+arts+and+crafts</p> | <p>Sallys seaside adventure Talking stories resource http://stories.lgfl.org.uk/</p> | | | <p>Busy things history – Tudor activities https://www.busythings.co.uk/lgfl-login/</p> <p>Tudor recipes http://cookit.e2bn.org/historycookbook/index-32-tudors.html</p> | <p>Busy things history – WW2 activities war time recipes http://cookit.e2bn.org/historycookbook/index-20-world-war-2.html</p> |
| topic | Travel and transport (con't) | Rio De Vida | Predator | Invaders and Settlers cont. | Off with her head! Cont. | A child's war cont. |

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| 2 nd half Summer | IT I can sort objects (4 lessons - Creating graphs & sorting) iboard, JIT Link to transport class topic creating graphs of traffic survey, car colours etc) | IT Finding out about us (3 lessons - Creating a class database & investigating it) J2 Data, 2Investigate IT Mini-beasties (4 lessons - Sorting, classifying & asking questions) J2branch, iboard Adapt to sort and classify Brazilian creatures? | CS I can use block coding (5 lessons - Program simple sequences) J2code Create a program in j2visual where predator chases prey | IT What's a spreadsheet? (3 lessons - Introduction to spreadsheets) MS Excel® Roman statistics? CS Logo Turtle mania (6 lessons – controlling an onscreen 'turtle') J2code Link to battle movements? | CS Logo shapes and patterns (5 lessons – controlling an onscreen 'turtle') J2code Procedures and variables | DL How can we trust the internet? (3 lessons - Understand how to check validity) Various identified websites Presentation software(optional) blogging software (optional) propaganda |
| Resources to support | London transport museum https://www.ltmuseum.co.uk/learning/activities?cid=email_FINAL_T_FLM092_Tfl_Craft_Club_Marketing-London+Transport+Museum D and K https://www.dkfindout.com/us/transportation/ | | | | | JIT branching database tool to create own yes/no data tree |

DL = Digital Literacy (Safeguarding)

CS = Computer Science (Programming)

IT= Information Technology (Publishing/ Data)

Unplugged = Can be taught without using computers