

BISHOP LONSDALE CHURCH OF ENGLAND PRIMARY SCHOOL AND NURSERY

*BECOMING **I**NDEPENDENT **S**UCCESSFUL **H**ONEST **O**PEN-MINDED **P**EOPLE*

Computing – Long-term planning

CS = Computer Science IT = Information Technology DL = Digital Literacy

| | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|----------------------|--|--------------------|---------------------|---|--------------------|---|-------------------------|
| Nursery & Reception | Cycle 1 | AMAZING ME | RAINBOWS & SPARKLES | FAIRYTALES & FORESTS | BLAST OFF! | MARVELLOUS MINI BEASTS & FABULOUS FLOWERS | TRAVEL & TRANSPORT |
| | Cycle 2 | FOOD GLORIOUS FOOD | LET'S CELEBRATE | HATS AND HAMMERS | PEOPLE WHO HELP US | ANIMAL MAGIC | SEALIFE AND SANDCASTLES |
| (2-year topic cycle) | <p>EYFS coverage includes a range of repeated activities across the year related to early Computing concepts and skills, not necessarily specific to the current topic, including: recognising simple repeating patterns; error-spotting in patterns; following a map route; following steps in order; using keyboards as part of letter/number recognition; using technology and devices in roleplay and recognising their purpose; using devices/technology for games and art; learning IT skills/concepts including using buttons to open, refresh, draw, write, erase and save work on devices. Interactive whiteboards, cameras, music system</p> | | | | | | |
| | <p>Staying safe online – Autumn (DL) (Project Evolve) Online bullying; Online relationships; Privacy & security.</p> | | | <p>Staying safe online – Spring (DL) (Project Evolve) Copyright & ownership; Online reputation.</p> | | <p>Staying safe online – Summer (DL) (Project Evolve) Health, wellbeing & lifestyle; Self-image & identity.</p> | |

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| | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---------------|----------------------------|--|--|--|---|--|--|
| Year 1 | Computing units | Technology around us (CS / IT / DL) NCCE Y1: Technology around us. Laptops with mice Tablets | Staying safe online 1 (DL) Project Evolve: Online bullying Online relationships Online reputation Health, wellbeing & lifestyle Self-image & identity | Digital writing (IT) NCCE Y1: Digital writing. Laptops with mice Word Safer Internet Day | Staying safe online 2 (DL) Project Evolve: Managing online information Privacy & security Copyright & ownership | Patterns and algorithms (CS) CAS: House patterns. CAS: Sorting objects. CAS: Crazy character algorithms. CAS: Sharing sweets. CAS: Creating patterns. CAS: Bee-Bots tinkering. Bee-Bots | Controlling robots (CS) NCCE Y1: Programming – Moving a robot. CAS: Bee-Bot basics. Bee-Bots |
| | Cross-curricular IT | IT-based tasks e.g. word processing, art. | | IT-based tasks e.g. word processing, art. | | Art – Street View Digital photography (Summer 1) Tablets | IT-based tasks e.g. word processing, art, photos. |
| | | | | | | | |
| | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Year 2 | Computing units | Using the internet (CS / DL) Twinkl Y2: Using the internet. Laptops with mice Tablets Seesaw | Staying safe online 1 (DL) Project Evolve: Online bullying Online relationships Online reputation | PowerPoint presentations (IT) Twinkl Y2: Presentation skills (PowerPoint). Laptops with mice PowerPoint Safer Internet Day | Thinking like a computer (CS) CAS: Head, shoulders, knees & toes CAS: Cake shopping list. CAS: Spelling rules. CAS: Story sequencing. CAS: River crossing. CAS: World map logic. | Control programs (CS) CAS: Bee-Bots 123. CAS: Bee-Bot route. Twinkl Y2: Programming turtle (lessons 1 & 2 only). CAS: Scratch tinkering (KS1). CAS: Pizza Pickle. Bee-Bots Laptops with mice Scratch | Staying safe online 2 (DL) Project Evolve: Copyright & ownership Health, wellbeing & lifestyle Managing online information Privacy & security Self-image & identity |
| | Cross-curricular IT | IT-based tasks e.g. word processing, art, photos. | | IT-based tasks e.g. word processing, art, photos. | | IT-based tasks e.g. word processing, art, photos, PowerPoint. | Art – Portraits and poses Digital drawing, digital photography & editing. (Summer 2) Laptops with mice Tablets Paint.Net Pixlr |

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|---------------|----------------------------|---|--|--|---|--|---|
| Year 3 | Computing units | Word processing (IT) Twinkl Y3: Word processing skills (Word). Laptops with mice Word | Staying safe online 1 (DL) Project Evolve: Online bullying Online relationships Self-image & identity | Computer networks (CS) NCCE Y3: Connecting computers. CAS: Network hunt. | Computational thinking (CS) CAS: Intro to decomposition. CAS: Getting ready for school. CAS: 2D shape drawing. CAS: Shapes and crystal flowers (repetition). Probot shape drawing. Laptops with mice Scratch Probot | Staying safe online 2 (DL) Project Evolve: Managing online information Online reputation Privacy & security Copyright & ownership Health, wellbeing & lifestyle | Stop-frame animation (IT) NCCE Y3: Stop-frame animation. Laptops with mice Tablets Stop-frame app |
| | Cross-curricular IT | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | | Art – Ammonite (Spring 1) Digital photography (lighting, positioning) and editing. Laptops with mice Tablets Pixlr | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | Art – People and places (Summer 2) Copy/paste images into a presentation / collage. Digital photography. Laptops with mice Tablets PowerPoint |
| | | | | | | | |
| | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Year 4 | Computing units | Understanding the internet (CS) NCCE Y4: The Internet. CAS: Modelling the internet. | Staying safe online 1 (DL) Project Evolve: Online bullying Online relationships Online reputation Health, wellbeing & lifestyle Self-image & identity | Data-logging (IT / CS) NCCE Y4: Data logging. Dataloggers Laptops with mice | Photo editing (IT) NCCE Y4: Photo editing. Laptops with mice Tablets Paint.Net Pixlr | Staying safe online 2 (DL) Project Evolve: Copyright & ownership Managing online information Privacy & security | Programming problem-solving (CS) CAS: Reusing recipes. CAS: Bug in the water cycle. CAS: Fossil formation. CAS: Viking Raid animation. Laptops with mice Scratch |
| | Cross-curricular IT | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | Art – Vista (Spring 2) Digital photography and editing. Laptops with mice Tablets Paint.Net Pixlr | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | |

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|---------------|----------------------------|--|--|--|---|---|--|
| Year 5 | Computing units | Programming efficiently (CS) Probot and Scratch games (procedures). Laptops with mice Scratch Probot | Simulations and rovers (CS / IT) Laptops with mice Scratch | Staying safe online 1 (DL) Project Evolve: Online bullying Online relationships Online reputation Self-image & identity | Systems, searches and sending data (CS / DL) NCCE Y5: Sharing information. NCCE Y6: Communication. CAS: Selecting search. CAS: Ranking search. | Micro:bits programming Laptops with mice Micro:Bits | Staying safe online 2 (DL) Project Evolve: Privacy & security Managing online information Health, wellbeing & lifestyle Copyright & ownership |
| | Cross-curricular IT | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | | Art – Line, light and shadow (Spring 1) Digital photography and editing, digital art. Laptops with mice Tablets Paint.Net Pixlr | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | D&T – Architecture (Summer 2) 3D modelling using TinkerCAD. Laptops with mice |
| | | | | | | | |
| Year 6 | Computing units | Databases (CS / IT) NCCE Y5 Flat-file databases. Laptops with mice Tablets | Programming with variables (CS) CAS: Logical number sequences. CAS: Maths quiz 1 (selection). CAS: Introduction to variables. CAS: Maths quiz 2 (variables). Micro:Bit games: Against the clock, fortune teller. Micro:Bit game: Bluetooth hot potato. Laptops with mice Scratch Micro:Bits | Staying safe online 1 (DL) Project Evolve: Online bullying Online relationships Online reputation Health, wellbeing & lifestyle Self-image & identity | Web design (CS / IT) NCCE Y6: Web page creation. CAS: Introduction to HTML. Laptops with mice Tablets | Staying safe online 2 (DL) Project Evolve: Managing online information Privacy & security Copyright & ownership | Micro:bits games and gadgets Laptops with mice Micro:Bits OR, if offered: DCCT – Rambots (CS) DCCT robot programming and control challenges. Robots provided |
| | Cross-curricular IT | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | | Art – Inuit (Spring 1) Manipulation of photos/scans and digital images. Laptops with mice Tablets Paint.Net | IT-based tasks e.g. PowerPoint, word processing, charts/graphs. | D&T – Make Do and Mend (Summer 1) Presentation of research into the WW2 campaign. Laptops with mice PowerPoint | Art – Environmental Artists (Summer 2) Combine images, sound, effects in a presentation/video. Laptops with mice Tablets PowerPoint |