**St. Bartholomew’s C of E Primary School**

**Computing & E-safety Curriculum Overview**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Foundation Stage** |  |  |  |  |  |  |
| **Key Stage 1**  Cycle A | What is a computer and how does it work?  Theme:  Technology all around us. | Understanding and using Multimedia and presenting information purposely  Focus:  Creating text for the story ‘Unplugged’ using Microsoft Word. | E-safety  Topics:  Self-image and identity  Online relationships  Online bullying  Link(s): PSHE | Understanding algorithms and code  Focus:  Creating a story using basic algorithms and utilizing Scratch Jr.  Link(s) - English, PE (Instructions) | Understanding and using data  Focus:  Creating and interpreting pictograms.  Link(s): Maths, Science. | Understanding and using Multimedia and presenting information purposely  Focus:  Creating digital images using Doodle Buddy  Link(s): Art. |
| **Key Stage 1**  Cycle B | What is a computer and how does it work?  Theme:  IT all around us. | Understanding and using Multimedia and presenting information purposely  Focus:  Creating a presentation to present to a peer using Microsoft PowerPoint. | E-safety  Topics:  Health, wellbeing and lifestyle  Managing information online  Copyright and ownership.  Online reputation.  Link(s): PSHE | Understanding algorithms and code  Focus:  Creating algorithms using Scratch Jr focusing on debugging skills.  Link(s): English, PE (Instructions) | Understanding and using data  Focus:  Creating and interpreting branch diagrams  Link(s): Science | Understanding and using Multimedia and presenting information purposely  Focus:  Taking and reviewing digital photographs.  Link(s): Geography. |
| **Year 3/4**  Cycle A | What is a computer and how does it work?  Focus:  How does a computer work? Identifying key components.  Link(s): KS1 What makes a computer and how does it work Cycle A | Understanding algorithms and code  Focus:  Creating a times tables game using algorithms and utilizing Scratch. | E-safety  Topics:  Self-image and identity  Online relationships  Online bullying  Link(s): PSHE | Understanding and using Multimedia and presenting information purposely  Focus:  Creating a presentation to present to a peer using Microsoft PowerPoint.  Link(s): KS1 Cycle B. | Understanding and using data  Theme:  What is the difference between data and information? (creating a spreadsheet using Microsoft Excel).  Links(s) KS1 Cycle B | Computer systems and networks  Focus:  How does a school network work?  Link(s): KS1 What makes a computer and how does it work Cycle A |
| **Year 3/4**  Cycle B | What is a computer and how does it work?  Theme:  What is the difference between software and hardware (and explain how each component works).  Link(s): KS1 What makes a computer and how does it work [Cycle B] | Understanding algorithms and code  Focus:  Creating algorithms using Scratch - focusing on debugging skills. | E-safety  Topics:  Health, wellbeing and lifestyle  Managing information online  Copyright and ownership.  Online reputation.  Link(s): PSHE | Understanding and using Multimedia and presenting information purposely  Focus:  Capturing high quality images to manipulate and combine to make a short movie using iMovie.  Link(s): Geography  Link(s): KS1 Cycle B | Understanding and using data  Focus:  Creating a spreadsheet using Microsoft Excel, including formulas; understanding simple databases.  Link(s): Year3/4 Cycle A. | Computer systems and networks  Theme:  What is a network? What does it looks like in school?  Link(s): KS1 What makes a computer and how does it work Cycle B |
| **Year 5/6**  Cycle A | What is a computer and how does it work?  Topic:  Processing and storing information.  Link(s): Year3/4 Cycle A | Understanding algorithms and code  Focus:  Creating a mythical game using complex algorithms using Scratch. | E-safety  Topics:  Self-image and identity  Online relationships  Online bullying  Link(s): PSHE | Understanding and using Multimedia and presenting information purposely  Focus:  Creating a presentation on the World War utilizing and combining different media.  Link(s): History  Link(s): Year3/4 Cycle A | Understanding and using data  Focus:  Collecting, analysing and sorting real life data.  Link(s): Science.  Links(s): Year3/4 Cycle A |  |
| **Year 5/6**  Cycle B | Computer systems and networks  Theme:  The internet - understanding and transferring data.  Link(s): Year3/4 Cycle B | Understanding and using Multimedia and presenting information purposely  Focus:  Creating Harry Potter stop motion animation.  Link(s): English | E-safety  Topics:  Health, wellbeing and lifestyle  Managing information online  Copyright and ownership.  Online reputation.  Link(s): PSHE | Understanding algorithms and code  Focus:  Creating a \_\_\_\_\_\_\_\_ using complex algorithms utilizing Scratch. | Understanding and using data  Focus:  Creating databases using Microsoft Access.  Link(s): Science.  Links(s): Year3/4 Cycle B |  |