

# Computing

At Westlea Primary School, we believe that, as technology plays such a significant role in society today, 'Computational thinking' is a skill children must be taught if they are to be able to participate effectively and safely in this digital world. We intend to support the children by allowing them to develop their skills to use a range of software and hardware to find, explore, analyse, exchange and present information in a safe, responsible and respectful manner. We will endeavour to prepare the children to discriminate between useful and effective technology, as well as looking at the content they are using. Our curriculum will equip the children with the knowledge and understanding of the principles of Computer Science, teaching them to develop algorithms and write and debug programs encouraging the children to apply problem solving and reasoning abilities.

Computing skills are vital in enabling our children to be confident, creative and independent learners and it is our intention that they have every opportunity available to allow them to achieve this.



| Year Group       | Autumn 1                                                                 | Autumn 2                                                      | Spring 1                                                                       | Spring 2                                                          | Summer 1                                                                      | Summer 2                                              |
|------------------|--------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------|
| <b>Computing</b> |                                                                          |                                                               |                                                                                |                                                                   |                                                                               |                                                       |
| 1                | Continuous Online E-Safety                                               |                                                               |                                                                                |                                                                   |                                                                               |                                                       |
|                  | Mouse skills<br>Logging on                                               | Painting                                                      | Programming Toys                                                               | Keyboard skills/word processing                                   | Programming with Scratch Jr                                                   | Using and Applying                                    |
| 1/2              | E-safety: keeping personal information private                           |                                                               | E-safety: identify where to go for help when they have concerns about contact  |                                                                   | E-safety: identify where to go for help when they have concerns about content |                                                       |
|                  | Basic skills: logging on/off; saving/accessing programs                  | Mouse skills: using a paint package                           | Programming with Scratch Jr<br>Debugging                                       |                                                                   | Keyboard skills: word processing – create Word or PowerPoint                  | Recognise common uses of IT beyond school             |
| 2                | Computer art (spacecraft)                                                | Presentation skills                                           | Using the internet                                                             | Program Scratch                                                   | Using and applying skills                                                     |                                                       |
| 3                | Learning to use search engine to find information and navigate websites. | Word Processing Combine text and graphics in a word document. | Drawing and Desktop Publishing Create a picture/fact file about Egyptian gods. | Presentation Skills Create a power point linked to Ancient Egypt. | On-line Safety                                                                | Programming with Scratch Junior                       |
| 4                | Digital Literacy & e-Safety Word Processing                              | Digital Literacy & e-Safety Online Safety                     | Digital Literacy & e-Safety Scratch: Questions and quizzes                     | Digital Literacy & e-Safety Animation (commuter systems)          | Digital Literacy & e-Safety Programming turtle logo                           | Digital Literacy & e-Safety Using and applying skills |
| 5                | Online Safety – ongoing Using and Applying Skills                        | Vector Drawing                                                | Internet Research and Webpage Design                                           |                                                                   | Scratch - Programming                                                         |                                                       |
| 6                | Programming – Scratch                                                    | On-line Safety                                                | Spreadsheets                                                                   | Revision programs                                                 | Digital Imagery – Film making                                                 | Photo editing                                         |