



## Abbeywood First School

### Computing Subject rationale

At Abbeywood First School, the aim of our computing curriculum is to provide pupils with the opportunity to develop an understanding of the difference technology can make to our lives. We want our pupils to gain confidence in programming; problem solving, through computational thinking; sharing information electronically and becoming responsible and safe users of a range of technology.

Our computing subject curriculum is progressive, inclusive and coherently sequenced in order to establish a strong foundation for all our pupils. It begins with and is driven by subject **knowledge**, which is developed through a balance of exploration and deliberate practice.

The **knowledge sought through the computing** curriculum is organised in four key areas:

- **Programming:** providing opportunities for pupils to understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- **Sharing information:** pupils learn to use and apply information technology across a range of contexts and for a range of purposes
- **Technology in our lives:** pupils learn to evaluate and apply information technology, including new or unfamiliar technologies.
- **Online Safety:** embedded through all computing learning, pupils learn to use technology safely and respectfully

P4C is woven throughout the teaching sequences to explore areas such as ethics through questions, stories and scenarios, and to support our children in developing a deeper appreciation of our school values of respect and perseverance.