



Intent, Implementation and Impact for Computing

Intent

At Perryfields, we aim to prepare our pupils for their future by giving them the **opportunities** to gain **knowledge** and develop **skills** that will prepare them for an **ever changing digital world**. The ability to **communicate digitally** has become an important life skill in the modern world. We want our pupils to be curious, independent learners who are able to use technology to **communicate safely and adeptly**. When teaching computing, we aim to equip our children with the skills required to use computers effectively to enable them to maximise their potential. To do so, we deploy teaching strategies through the Purple Mash scheme of work that promotes resilience, independence, critical thinking, communication skills and problem solving.

We deliver a broad curriculum which helps children to enjoy learning within a progressive sequence. We want our pupils to understand that there is always a **choice** when accessing technology, and as a school, in particular with '**social media**' - we aim to model positive use. We understand that preventative methods of online/social media misuse can be addressed through education. We recognise that Computing **unlocks pathways** for children to be curious individuals and is a powerful communication tool in the modern world.

Implementation

We use Purple Mash as a comprehensive scheme of work, addressing the statutory aspects of the National Curriculum. We use the mixed age planning resources because our classes often contain children from different age groups. Teachers adapt the resources to meet the specific needs and interests of each particular cohort. Pupils will be taught to:

- **Design, write and debug programs** that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
- **Use sequence, selection and repetition in programs**; work with variables and various forms of input and output; generate appropriate inputs and predicted outputs to test programs.
- Use logical reasoning to explain how a **simple algorithm** works and to detect and correct errors in algorithms and programs.
- **Understand computer networks** including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration.
- **Describe how internet search engines find and store data**; use search engines effectively; be discerning in evaluating digital content; respect individuals and intellectual property; use technology responsibly, securely and safely. Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating, and presenting data and information.

E-Safety

In addition to the Computing Curriculum, we also teach **one E-safety lesson to all of our children every half term**. We recognise that our children often come from vulnerable backgrounds and are particularly **susceptible to online dangers**. We therefore prioritise the teaching of this of this particular area of the curriculum.

Impact

We recognise that **technology plays a major role in young people's lives**. We ask the 'why' and not just the 'how' to explore the depth of each objective in order to encourage children to discuss, reflect and appreciate the impact that Computing has on their learning, development and wellbeing. Finding **the right balance with technology** is key to an effective education and a **healthy lifestyle**. We encourage regular discussions between staff and pupils to best embed and understand this. The way pupils showcase, share, celebrate and publish their work will best show the impact of our curriculum. We look for positive impact through observing learning regularly, early intervention where necessary and reviewing pupil's digital skills through tools across Purple Mash. Progress of our Computing curriculum is measured through outcomes and the record of coverage on the Educater assessment programme. Children's work is showcased in floor books and their individual learning logs.