

# Subject: Computing

## Intent:

- Computing is structured with sequenced lessons that cover the skills required to meet the aims of the National Curriculum
- To offer a broad, deep understanding of computing and how it links to children's lives
- We intend to consolidate and challenge children's understanding through a range of computing learning experiences.
- Children will develop analytical problem solving skills and learn to evaluate and apply information technology. It also enables them to become responsible, competent, confident and creative users of information technology.

## Implementation:

- Sequence of lessons allows for the opportunity to design, apply, revise, evaluate and share their work
- A love of the digital world is developed through given children chance to see it's place in the future
- Units are taught on a two-year program and cross curricular links are used to support learning in other areas of the Curriculum. KS1 focus on developing the use of algorithms, programming and how technology can be used safely and purposefully. In KS2, lessons continue to focus on the use of algorithms, programming and coding but in a more complex way and for different purposes.
- Children also develop their knowledge of computer networks, internet services and the safe and purposeful use of the internet and technology.

## Impact:

- Children will use digital and technological vocabulary accurately, alongside a progression in their technical skills.
- They will be confident using a range of hardware and software and will produce high-quality purposeful products.
- Children will see the digital world as part of their world, extending beyond school, and understanding that they have choices to make,
- They will be confident and respectful digital citizens going on to lead happy and healthy digital lives.
- Learning in computing will be enjoyed across the school.

## Strengths:

- Physical computing enhanced during 23/24 with the introduction of hardware, such as crumble sets, ozobots and megabits
- Clear plan of how Computing will be used across the curriculum
- AI and VR being taught in KS2
- Seesaw App used as a digital online learning journey to collect children's computing work (when necessary)
- D.A.R.E.S. scheme used throughout school since Summer 2023
- Computers being used more by other members of staff
- Children show a great attitude to learning in Computing
- New laptops have made a massive improvement to Computing in school and made it more accessible for all
- iPads in Class 1 have been a great addition
- School accredited the National Online Safety award for 2023/2024
- A range of ways of working in Computing e.g. group work, discussions planned into each unit where appropriate
- Parents, staff and governors all completed some online safety CPD 23/24
- Computing is taught by the subject specialist

## Next Steps:

- Develop a magical and memorable curriculum
- Ensure computing is embedded across the curriculum
- Develop Computing in EY
- Develop respecting computing equipment
- Develop Computing Leaders – Role Models for good use of being Online
- Create a culture of what is acceptable online and developing their online reputation
- Opportunities for specialists to come in to work with the children e.g., website designed or animation expert etc.
- Computing Club
- Ensure school has a plan for replacing and keeping up to date with IT equipment / resources
- Computing CPD to be offered and expected for all staff
- National Online Safety to be used to promote keeping safe online for staff, children and parents



## Planning:

- Long term planning is based on the national curriculum..
- Medium term planning is carried out half termly and is developed from the long term plan.
- Planning has been used from D.A.R.E.S scheme to ensure progression is evident from EY to Year 6.

## SEND:

- Extra support for the activities or the language content altered.
- Resources will be modified to be accessed more easily, where appropriate. Often children are accessing the learning at their own pace which is monitored, and more able children can and are encouraged to deepen and show mastery in their learning.

## Monitoring and Assessment:

End of unit assessments are carried out so staff can feel confident in the progression of skills and knowledge and that outcomes have been met. Assessment will also take place informally through observation, open questioning, discussions and marking children's work. This information will be recorded on our school's foundation tracking sheets and shared termly with parents.