Computing

"Be courageous, be strong. Do everything in love."

Intent- we aim to…

Educate children on how to use technology safely, both at school and at home.	Ensure that children learn across the three key areas; computer science, information technology and digital literacy.	To ensure there is progression year on year within each strand of computing.	Ensure that children understand what a digital footprint is and the impact that it has on people long term.	To provide software, hardware and offline resources to ensure that children have a strong foundation in computing.

Implementation- How do we achieve our aims?

Our curriculum

Our computing curriculum follows the Purple Mash scheme of work. Purple Mash provides teachers with lesson plans, guidance and resources to deliver Computing from EYFS to Year 6. The benefits of this include a clear progression of skills which are revisited each year. Teachers can set activities as "to dos", which are then self assessed, handed in and assessed by teachers. Purple Mash gives children a safe space to practice and learn skills such as blogging, coding and emails, and can also be used for cross curricular links, such as history and geography. We supplement purple mash with beebots, Sams Labs and Microbits.

Golden Threads

At Grazeley Primary School, computing is taught through four golden threads. These topics are revisited year on year to build on previous learning and introduce new skills and vocabulary. In Early Years, children receive an introduction to coding through beebots. In year 2, children will not only code but learn to debug code and problem solve. In year 6, children will use strings, variables and run/execute functions to create games using databases.

Our content includes…

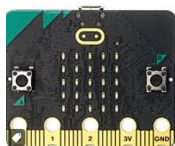Computer science, information technology and digital literacy.

Our threads…

Connection, Communication, Data Collection and Coding

Vocabulary-

In accordance with the Grazeley Eight, vocabulary is one of our key areas of focus. Each unit has key vocabulary which is available to the children on knowledge organisers. Each lesson, key vocabulary is explained and modelled, with quizzes available. Teachers use the correct terminology and have high expectations that children do the same.

Time Tabling-

All children have one computing lesson per week, as well as additional opportunities for using chromebooks and ipads for cross curricular learning, such as photography in art and research in English.

Skills progression -

Lessons are sequences to ensure progression in knowledge and to ensure that skills are repeated and developed year on year.

Planning-

By using Purple Mash, we ensure that our planning is consistent across the school, with medium term plans which provide coverage, key vocabulary and supporting materials.

Impact- how will we know we have achieved our aims?

- Children are able to connect safely with others.
- Children are taught the importance of a positive digital footprint.
- Children are taught to use technology to communicate.
- Children are able to code.
- Children are able to collect, Understand and evaluate data.