Curriculum Intent: What do we want our children to learn?

At Grange Infant School, we aim to prepare our learners for their future by giving them the opportunities to gain knowledge and develop skills that will equip them for an ever changing digital world. Knowledge and understanding of ICT is of increasing importance for children's future both at home and for employment. Our Computing curriculum focuses on a progression of skills in digital literacy, computer science, information technology and Online safety to ensure that children become competent in safely using, as well as understanding, technology. Our intention is that Computing also supports children's creativity to engage them and enrich their experiences in school.

Impact:

The implementation of this curriculum ensures that when children leave Grange Infant School, they are: passionate by the use of information technology Inquisitive learners and problem solvers able to challenge themselves willing to demonstrate their skills and understanding of computing able to advocate safe use of online technologies whilst being aware of how to keep safe and report concerns

Online Safety at Grange Infant School

Computing in a Nutshell

Our 5 Curriculum Drivers in Computing:

Curiosity– Children's curiosity will be developed through their ability to question the world around them.

Courage to Take Risks-The children will be encouraged to challenge themselves and take risks throughout the computing curriculum.

Love of reading– Age appropriate texts will be woven throughout the computing curriculum to inspire and engage the children.

Imaginative-The children will explore their own ideas and make connections to the real world. Children will use their prior knowledge to reflect critically and develop their imagination.

Empathetic- Online safety promotes many social values. Learning to use technology safely and respectfully helps the children to build good relationships and respect the differences between people.

Curriculum Implementation: How do we do it at Grange Infants School?

We teach the National Curriculum, supported by a clear skills and knowledge progression. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children. To ensure a broad range of skills and understanding, Computing is taught across three main strands: Digital Literacy, Computer Science and Information Technology. As part of Information Technology, children learn to use and express themselves and develop their ideas through ICT. Within digital literacy, children develop practical skills in the safe use of ICT and the ability to apply these skills to solving relevant, worthwhile problems for example understanding safe use of internet, networks and email. In Computer Science we teach children to understand and apply the fundamental principles and concepts of abstraction, logic, algorithms and data representation. Also to have repeated practical experience of writing computer programs in order to solve problems. At Grange Infant School, we give children access to a wide range of resources and provide cross curricular opportunities for children to apply their Computing knowledge and skills. Online safety

is an essential part of each Computing lesson and is further embedded into school life via special weeks and days, visitors and reading books. Online safety is regularly communicated with all staff and parents and is ever changing as the needs of the pupils adjust.