

Intent:

What do we want children to learn?

The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that they become digitally literate - able to use and express themselves and develop their ideas at a level suitable for the future workplace and as active participants in a digital world.

Computing and Online Safety in a Nutshell



Grange Junior School



Implementation:

How do we do it at Grange Juniors?

We follow the National Curriculum aims through our own developed curriculum that includes Computing and Online Safety (based on Education for a Connected World). In both Computing and Online Safety, our curriculum is broad, balanced and progressive, covering three key strands in Computing (Computer Science, Digital Literacy and Information Technology) and eight topics in Online Safety (including Online Bullying, Health, Well-being and Lifestyle and Managing Online Information) from Year 3 to Year 6. Our teaching and learning is ambitious so that pupils are always engaged, challenged and continually building on previous understanding. To assess learning, pupils complete a concept cartoon at the end of each topic - teachers then use this as assessment for learning to inform future teaching, making sure that new learning addresses misconceptions and builds on previously learnt knowledge.

What Design & Technology looks like at Grange Junior School...

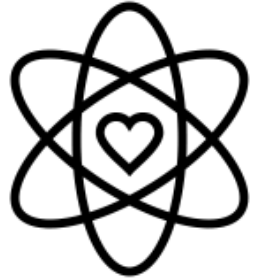
In Computing we cover three key strands twice every year and eight topics in Online Safety every year making sure that new learning addresses misconceptions and builds on previously learnt knowledge and understanding.

Impact:

On leaving Grange Junior School children will:

Through all these measures, our pupils learn to be responsible, competent, confident and creative users of information and communication technology. By the end of their time at Grange, we want to ensure that our pupils develop the skills needed to be able to access technology as a tool for learning and allow them to adapt to the ever-changing technology industry in the future.

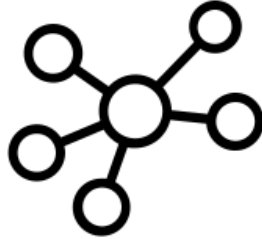
Our Golden Threads in Design and Technology



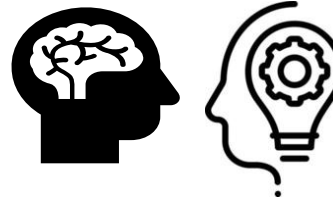
Values Rich



Language Rich



Connections Rich



Knowledge and Skills Rich



Active and Enriched

This subject supports our values by

This subject supports children's vocabulary use and acquisition by...

This subject let children make connections by

This subject provides children with the relevant knowledge and skills by

This subject allows for active and enriched learning by...

Through online safety sessions children are taught the importance of values in the virtual world. Combined with the school's PSHE curriculum, children develop a rounded understanding of what it means to be a respectful citizen.

To converse with confidence orally and in writing in a range of contexts using subject specific vocabulary.

To make connections in their learning and to know more, remember more and do more each year leading to academic success and enjoyment in this subject;

Develop necessary skills to use computational thinking to understand and change the world; also in order to acquire, apply and transfer their knowledge across topics;

Being proficient in online safety to ensure they are aware and practice being safe online and at home;

