Computing at Ramsbury School

At Ramsbury School we believe that Computing forms a vital component of preparing our children for the future, both as lifelong learners and as productive members of society.

Intent

At Ramsbury School through the teaching of Computing we aim to ensure that all pupils can understand and apply the fundamental principles and concepts of computer science; can analyse problems in computational terms; can evaluate and apply information technology analytically to solve problems and are responsible, competent, confident and creative users of information and communication technology, knowing how to keep themselves and each other safe online. Computing will also build children's research, communication and presentation skills in a variety of digital mediums. Computing will encourage creativity, logical thinking and problem solving and will have strong links with English, Maths, Science and Design Technology.

Ramsbury School takes internet safety extremely seriously; teachers provide guidance for children about how to use the internet safely across the wider curriculum. At Ramsbury Primary School, we recognise that children's needs for online safety can differ in each cohort and therefore plan a curriculum that reflects this.

Children at Ramsbury School have a real passion for Computing as they are inspired by significant computer scientists from all over the world, both today and in the past. They are the next generation of a world where technology is a huge part of day-to-day life and are therefore inspired to explore where Computer Science can take them in their futures.

Implementation

At Ramsbury School our Computing provision provides coverage in line with the National Curriculum. Teaching and learning facilitate progression across all key stages within the strands of digital literacy, information technology and computer science, using both offline and online activities. Lessons are taught using a range of hardware including iPads, laptops, BeeBots, Bluetooth data loggers and Edison Robots. Children across the school are taught how to use a range of software and hardware effectively with a view to making them confident and discerning users and programmers of technology in the future. Our children are introduced to collaborative online learning through Google Classroom, where they also learn to share their work and ideas digitally in a range of formats. All children have regular opportunities to tinker with various technology to deepen their curiosity and understanding. Children are able to experience real-life computing careers through this teaching e.g., computer programmers, game designers, animators, data analysts, film makers etc. Where appropriate, Computing and the use of skills learnt within the Computing curriculum, are embedded in other aspects of our school curriculum.

Online Safety is regularly discussed and taught throughout the year in our Computing lessons as well as across the curriculum. Teachers regularly assess children's online safety knowledge in the following areas: self-image and identity, online relationships, online reputation, online bullying, managing online information, health, well-being and lifestyle, privacy and security and copyright and ownership. They are then able to plan an online safety curriculum that is most relevant to their current cohort, whilst addressing any real-world issues within online safety at that time. Internet Safety Day is marked each year with a range of activities designed to ensure that our pupils exercise

the correct behaviours and possess the requisite knowledge to become good digital citizens for life. This is completed collaboratively across all year groups with shared content created.

Impact

Ramsbury School takes great pride in the teaching and learning of Computing and strives to ensure that every child can become a confident user of technology, being able to use it to accomplish a wide variety of goals, both at home and in school. Children will have a secure knowledge of the implications of technology and digital systems by the time they leave our school. This is important in a society where technologies and trends are rapidly evolving. Our pupils will be equipped, not only with the skills and knowledge to use technology effectively and for their own benefit, but more importantly – safely. The biggest impact we want on our children is that they understand the consequences of using the internet and that they are also aware of how to keep themselves safe online.

The Subject Leader for Computing is Mrs Chelsea Cooke