



Computing: Intent, Implementation and Impact

Intent

What skills and knowledge do we intend our children to gain?

At Westfield Primary School and Nursery we aim to ensure that all pupils:

- Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- Can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- Are responsible, competent, confident and creative users of information and communication technology

As such we have designed our curriculum around 4 key areas: **computer science, information technology, digital literacy** and **online safety**. The combination of these areas equips our children with the ability to safely and confidently use a computer.

With technology being so significant in society today, Westfield Primary School provide all pupils with the opportunities to understand the importance and be able to use creativity to understand and change the world. This will be conducted not only in computing lessons, but any other subject where it will aid learning and show practical applications.

Implementation

How has the curriculum been developed, how is it taught and how is it assessed in order to support our children to build their knowledge and apply that knowledge as skills?

We have created a comprehensive progression document for staff to follow to best embed and cover every element of the computing curriculum. The knowledge/skills statements build year on year to deepen and challenge our learners.

Information Technology	Computer Science	Digital Literacy
Word Processing/Typing Data Handling Presentations, Web design and eBook Video Creation Animation Photography and Digital Art Augmented Reality and Virtual Reality Sound	Computational Thinking Programming Computer Networks	Self Image and Identity Online Relationships Online Reputation Online Bullying Managing Online Information Health, Wellbeing and Lifestyle Privacy and Security Copyright and Ownership

The Rising Stars Switched on computing scheme is used at Westfield Primary school. Progression is evident through the advancing of skills required to move through the years from EYFS up to year 6. For each unit of work, a project is created, the students fill in an "I can ..." sheet, there are suggested subject links, and an outcome is clearly stated. Each year class teacher is provided with a computing curriculum objectives sheet, which clearly sets out what each unit will be teaching. Throughout the year there will be mention of internet safety, within the class and also in an annual assembly for Internet Safety Day (February). A Code Club is run weekly for years 5 and 6 to attend as an after school club.

There is a constant dialogue between teaching staff and the computing subject co-ordinator to ensure that all necessary CPD is carried out, and also that all necessary software and hardware are available.

From January 2021, we introduced using Seesaw across the whole school, it is an app which is being used both at school and at home for children's learning. This will help develop and improve a number of skills for the children, including word processing and keyboarding skills, navigating the various pages, problem solving, becoming more confident, and logging on. It has also provided an opportunity for teaching staff to develop their knowledge of various teaching tools and using the computer for a purpose.



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Impact

What outcomes will or have our children achieved as a result of the curriculum they have received?

Having worked their way through the computing curriculum at Westfield Primary school, the pupils will be better able to enter the world with sufficient skills and knowledge to use technology effectively and more importantly, safely. We will produce good digital citizens.