Computing at Tittensor First School

Policy – September 2024
to be reviewed: September 2026

> ***'We are changing the world with technology.'***
>
> *- Bill Gates*

Rationale – Why do we teach Computing?

Computing is based on problem-solving and tackling complex tasks both efficiently and creatively. Information and communication technology is an integral part of the national curriculum and is a key skill for everyday life. Multiple platforms such as; Purple Mash, Google Classroom, BeeBot and Virtual Reality are a few of the tools that we use in school to acquire, organise, interpret, communicate and present information. In today's society, there are minimal aspects of life today that are not touched by technology. We use technology for: working, socialising, studying, shopping, accessing healthcare, playing, travelling and communicating. The world that is developing in front of us is increasingly reliant on future generations being comfortable with the use and understanding of computers. Not every child at Tittensor will work in a related field but it can be argued they will be in contact with someone that is.

What are the aims of the Computing curriculum?

At Tittensor, we want to all pupils to have the opportunity to understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation. Children at Tittensor are to become 'tech literate' and use technology responsibly and creatively. We aim to provide all children with the ability to use the internet safely and effectively.
We believe that in an ever-changing world, our curriculum provides out children with the skills and expertise to be prepared for the wider world.

What do we expect within the teaching of Computing?

At Tittensor, we expect that all teachers fully engage with the Computing curriculum. Computing should be taught once a week for an hour. Teachers are to engage with Purple Mash for the delivery of Computing, as well as any other resources that can aid in teaching such as; Google Classroom or BeeBots when appropriate. Vocabulary is prime focus within our Computing sessions. The children are then expected to be able to talk about the learning and technological terminology with confidence and understanding. All children, no matter what their ability, are to access and have the opportunity to extend their knowledge and understanding of how to engage with and use technology.
All data and assessment is recorded and stored on DCPro for monitoring and evidence purposes.

What is taught in Computing at Tittensor?

Focus/Unit	Nur	Rec	Y1	Y2	Y3	Y4
Debugging	✓	✓	✓	✓	✓	✓
Programming	✓	✓	✓	✓	✓	✓
Algorithms			✓	✓	✓	✓
Computer Networks/Using the Internet			✓	✓	✓	✓
Digital Design			✓	✓	✓	✓
Use Technology Purposefully and Safely	✓	✓	✓	✓	✓	✓
Coding			✓	✓	✓	✓
Effective use of Search Engines			✓	✓	✓	✓