



Computing

Implementation Statement

Across Temple Normanton Junior Academy, we follow the Teach Computing scheme of work. This has been developed to follow the National Centre for Computing Education's computing taxonomy to ensure a comprehensive coverage of the subject. Throughout KS1 and KS2 we follow a spiral curriculum which allows for the key themes to be revisited regularly, consolidating and building on prior learning within that time.

The key themes revisited across the year are:

- Algorithms (comprehend, design, create and evaluate)
- Computing networks (retrieving and sharing information)
- Computer systems (what a computer is and how parts function together as a whole)
- Creating media (select and create a range of text, images, sounds and video)
- Data and information (how data is stored and organised in the real world)
- Design and development (planning, creating and evaluating)
- Effective use of tools (software tools to support computing work)
- Impact of technology (how individuals, systems and societies interact with computing systems)
- Programming (create software)
- Safety and security (understanding of risks and how to protect themselves)

These themes are covered through four repeating units:

- Computing systems and networks
- Creating media
- Programming
- Data and information

In order to develop computational thinking and encourage children to learn and remember more, children engage with computational concepts and approaches across the curriculum.

Concepts	
Logic	Predicting and analysing
Algorithms	Making steps and rules
Decomposition	Breaking down into parts
Patterns	Spotting and using similarities
Abstraction	Removing unnecessary detail
Evaluation	Making judgements

Approaches	
Tinkering	Experimenting and playing
Creating	Designing and making
Debugging	Fixing and finding errors
Persevering	Keeping going
Collaborating	Working together

Alongside the computing curriculum lessons, children are also encouraged to use technology across the curriculum. This could take the form of research, producing media, recording work or completing homework.

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