

# COMPUTING

Shining as we learn in  
Faith, Family and Friendship!



## COMPUTING CURRICULUM OVERVIEW

### COMPUTING STATEMENT OF INTENT

*At St Williams, the aim of our computing curriculum is to give our pupils the life-skills that will enable them to embrace and utilise all forms of technology in a socially responsible and safe way, in line with our core values and vision. Through our computing curriculum, we aim to prepare our pupils to be positive contributors to the 21st century workplace and to embrace without fear, the rapidly changing world of computational systems. Not only do we want our pupils to be digitally literate and competent end-users of technology but through our computer science lessons we aim that they will develop creativity, resilience, problem-solving and critical thinking skills. We ensure that our implementation is fully inclusive and accessible to every child. We aim that all our pupils will have a breadth of experience to develop their understanding of themselves as individuals within their community but also as members of a wider world and as responsible digital citizens.*

### THE GOLDEN THREADS OF EYFS

Children learn how to look after themselves and keep themselves safe in school and when out in the local environment.

They begin to learn how to recognise letters in order to read and write.

They use Makaton signs and pictorial symbols regularly to communicate

They follow instructions for a variety of tasks, related to personal growth, education and following classroom rules. They begin to learn how to direct others by giving instructions.

They learn and are given opportunities to explore different types of technology when appropriate and know the names of these different devices, including 'computer', 'phone' and 'tablet'.

They select and use technology for particular purposes.

### YEAR 1

#### KEY CONCEPT: WE ARE DIGITAL INVESTIGATORS!

AUTUMN TERM		SPRING TERM	SUMMER TERM
<b>E-Safety &amp; Information Technology</b> Online Safety – Personal Information	<b>Data Handling</b> Grouping and sorting images and information to create pictograms.	<b>Coding</b> Beginning to use coding language to give clear instructions	<b>Multimedia</b> Using pictures, videos and sound clips to create animated stories.

### YEAR 2

#### KEY CONCEPT: WE ARE DIGITAL RESEARCHERS!

AUTUMN TERM	SPRING TERM	SUMMER TERM
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<b>E-Safety</b> Online Safety – Keeping myself safe	<b>Data Handling</b> Using columns, rows and cells on Google Sheets. Asking more complex search questions.	<b>Coding</b> Introduction to coding	<b>Multimedia</b> Creating pictures Making Music Presenting Ideas Effective Searching
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### YEAR 3

#### KEY CONCEPT: WE ARE DIGITAL ANALYSERS!

AUTUMN TERM	SPRING TERM	SUMMER TERM
<b>E-Safety</b> Online Safety – communication via email	<b>Data Handling</b> Collecting data to produce a variety of graphs. Branching Databases	<b>Coding</b> Developing coding skills
		<b>Multimedia</b> Touch Typing Presenting – Google Slides

### YEAR 4

#### KEY CONCEPT: WE ARE DIGITAL INTERPRETERS

AUTUMN TERM	SPRING TERM	SUMMER TERM
<b>E-Safety</b> Protecting ourselves from identity theft and malware	<b>Data Handling</b> Creating branching data bases and organising data in different ways on Google sheets.	<b>Coding</b> Learning coding language - Logo Developing coding skills and debugging errors
		<b>Multimedia</b> Effective Searching Investigating digital hardware Animation

### YEAR 5

#### KEY CONCEPT: WE ARE DIGITAL CONTENT CREATORS

AUTUMN TERM	SPRING TERM	SUMMER TERM
<b>E-Safety</b> Being aware of inappropriate online content	<b>Data Handling</b> Creating and manipulating spreadsheets	<b>Coding</b> Creating programs using decomposition Creating games and 3D models
		<b>Multimedia</b> Producing concept maps to create documents on Google docs.

### YEAR 6

#### KEY CONCEPT: WE ARE FUTURE DIGITAL LEADERS!

AUTUMN TERM	SPRING TERM	SUMMER TERM
<b>E-Safety</b> Identifying the positive and negative influences of	<b>Data Handling</b> Creating quizzes that require a searching a database	<b>Coding</b> Writing and editing algorithms
		<b>Multimedia</b> Blogging

technology on themselves and others			
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