



St Wilfrid's
Church of England Academy

Key Stage 3 Curriculum

Learning Area:

Computing & ICT

**Learning Area
Coordinator:**

Mr K Alpin

What will I study?

The national curriculum for computing aims 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.

SUBJECT – YEAR 7

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Focus						
	<p>Introductory Unit covering e-safety and an introduction to programming using Logo</p> <p>Using Documents</p>	<p>Computing: Hardware and Software</p> <p>Binary Codes</p> <p>Using Spreadsheets</p>	<p>Programming in Scratch</p> <p>E-Safety: Cyberbullying</p> <p>Advances search Techniques</p> <p>Research Project: Alan Turing</p>	<p>Creating an interactive quiz using PowerPoint and VBA</p>	<p>Using Databases</p>	<p>Game Programming</p> <p>Scratch Challenges</p>

SUBJECT – YEAR 8

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Focus						
	Digital Footprints Copyright & Creative Commons licenses Inside a computer: the processor Game design	Introduction to programming in Python Programming a microBit	Creating a game using Gamemaker	Web Graphics The Internet HTML and webpages	Creating a Website More Python Programming	Using Flowol – controlling devices

**Where do I go
to find out more
information?**

www.gov.uk contains details of the National curriculum in all subjects. Specific computing documents can be found at

<https://www.gov.uk/government/publications/national-curriculum-in-england-computing-programmes-of-study>

or

<http://tinyurl.com/q8avkeb>

Students will find it useful to have copies of the Open Source software which we use. This includes

- Audacity
- Scratch (can be used online at <https://scratch.mit.edu>)
- Python 3

Students can install Office 2016 on a home computer at no cost. Access is through the school's page on office.com.

More details will be given to students in lessons