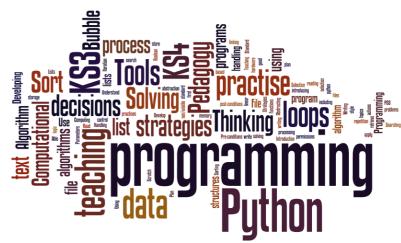
Last Updated: August 2021

# **KS3 Overview**

## Computer Science & ICT 2021-2022

**Years 7-9** 



Our <u>intention</u> is to provide a varied, challenging and engaging Computer Science & ICT curriculum, which ensures that our students of Computer Science & ICT will:

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





### **Year 7 Overview**

Using Computers Safely, Effectively & Responsibly

Presenting Information for a Specific audience & purpose

Understanding Computers: Intro to Computer Science

Games Programming: Scratch 3.0

Control Systems: Flowol 4.0

	AUTUMN TERM 1 (7 WEEKS)	AUTUMN TERM 2 (7 WEEKS)	SPRING TERM 1 (7 WEEKS)	SPRING TERM 2 (6 WEEKS)	SUMMER TERM 1 (5 WEEKS)	SUMMER TERM 2 (7 WEEKS)
1	Induction to school network & resources	Lesson 5: Searching the web	Lesson 1: Input/Process/ Output	Lesson 1: Simple movement (sprites & coding)	Lesson 3: Adding a new level (broadcast scripts)	Lesson 1: Flowcharts
2	CS Baseline Assessment	Lesson 6: Assessment & Progress Booklets	Lesson 2: The CPU	Lesson 2: Lives & scoring (variables)	Lesson 4: Randomisation (operators)	Lesson 2: Sequencing
3	& Seating Plans Year 7 Assessments	Lesson 1: Audience & purpose	Lesson 3: Binary	Year 7 Assessment Preparation	Lesson 5: Shooting & jumping	Lesson 3: Sensors
4	Lesson 1: File Management	Lesson 2: Planning a multimedia presentation	Lesson 4: Binary Addition	Year 7 Assessment Preparation	Lesson 6: Sound	Lesson 4: Subroutines
5	Lesson 2: Social networking	Lesson 3 Creation of multimedia presentation	Lesson 5: Storage Devices	Year 7 Exams	Lesson 7: Assessment & Progress Booklets	Lesson 5: Actuators
6	Lesson 3: Keeping your data safe	Lesson 4: Creation of interactive presentation	Lesson 6: Assessment	Year 7 Exam Feedback		Lesson 6: Variables
7	Lesson 4: Using email	Lesson 5: Peer / Self- Assessment	Lesson 7: Progress Booklets Review & Reflect			Lesson 7: Assessment & Progress Booklets



### **Year 8 Overview**

Digital Animation: Adobe Animate

Introduction to the BBC Micro:bit

Website Development:
Adobe Dreamweaver

Introduction to Python
Programming
Computer Crime

	AUTUMN TERM 1 (7 WEEKS)	AUTUMN TERM 2 (7 WEEKS)	SPRING TERM 1 (7 WEEKS)	SPRING TERM 2 (6 WEEKS)	SUMMER TERM 1 (5 WEEKS)	SUMMER TERM 2 (7 WEEKS)
1	CS Baseline Assessment &	Lesson 5b: Adding sound	Lesson 5: Safe Lock System in Python	Lesson 5: Web Forms	Year 8 Assessment Preparation	Lesson 6: Assessment & Progress Booklets
2	Seating Plans	Lesson 6: Publishing an animation	Lesson 6: Assessment & Progress Booklets	Lesson 6: Assessment & Progress Booklets	Year 8 Exams	Lesson 1: Scams
3	Lesson 1: 'Frame-by-Frame' animation	Lesson 7: Assessment & Progress Booklets	Lesson 1: HTML	Lesson 1: Introduction to Python	Year 8 Exam Feedback	Lesson 2: Hacking
4	Lesson 2: ' Motion Tweening'	Lesson 1: Creating Your First Program	Lesson 2: CSS	Lesson 2: Numbers & Arithmetic	Lesson 4: Writing Algorithms	Lesson 3: Protecting Personal Data
5	Lesson 3: Text, Buttons & ActionScript	Lesson 2: Guess The Direction	Lesson 3: Planning a Website	Lesson 3: Selection – IF statements	Lesson 5: Iteration – While Ioops	Lesson 4: Copyright
6	Lesson 4: Planning an animation	Lesson 3: Safe Lock System	Lesson 4: Developing a Website	Year 8 Assessment Preparation		Lesson 5: Health & Safety
7	Lesson 5a: Creating an animation part 1	Lesson 4: Peer & Self Review / Improvements	Lesson 4: Developing a Website			Lesson 6: Assessment & Progress Booklets



#### **Year 9 Overview**

Sound Recording & Editing: Audacity

Advanced Python Programming Introduction to Computer Networks

Creating Digital Graphics
Adobe Photoshop
Basic HTML & CSS:
Adobe Dreamweaver

	AUTUMN TERM 1 (7 WEEKS)	AUTUMN TERM 2 (7 WEEKS)	SPRING TERM 1 (7 WEEKS)	SPRING TERM 2 (6 WEEKS)	SUMMER TERM 1 (5 WEEKS)	SUMMER TERM 2 (7 WEEKS)
1	CS Baseline Assessment &	Lesson 6 Assessment & Progress Booklets	Lesson 5: Encryption	Lesson 5: Creating a Movie Poster Pt 3	Lesson 4: Creating an advertisement pt 1	Lesson 1: HTML
2	Seating Plans	Lesson 1: The Internet	Lesson 6: Assessment & Progress Booklets	Lesson 6: Pt 4 Finishing / Exporting Files	Lesson 4: Creating an advertisement pt 2	Lesson 2: CSS
3	Lesson 1: Python Basics RECAP	Lesson 2: Connectivity	Lesson 1: Vector Graphics	Lesson 7: Assessment & Progress Booklets	Lesson 4: Creating an advertisement pt 3	Lesson 3: Planning a Website
4	Lesson 2: Loops	Lesson 3: Topologies & Exam Preparation	Lesson 2: Bitmap Graphics	Lesson 1: Digitising Sound	Lesson 5: Testing & Exporting Files	Lesson 4: Developing a Website
5	Lesson 3: Lists	Lesson 4: Client-Server Net & Exam Preparation	Lesson 3: Conveying Meaning	Lesson 2: Jobs in the Sound Industry	Lesson 6: Assessment & Booklets	Lesson 4: Developing a Website
6	Lesson 4: Procedures	Year 9 Exams	Lesson 4: Creating a Movie Poster Pt 1	Lesson 3: Listening & planning		Lesson 5: Web Forms
7	Lesson 5: Functions	Year 9 Exam Feedback	Lesson 5: Creating a Movie Poster Pt 2			Lesson 6: Assessment & Progress Booklets

