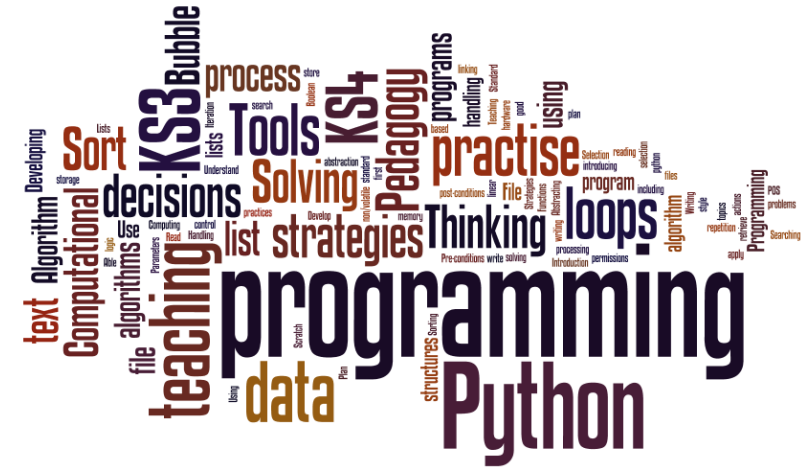# KS3 Overview

Computer Science & ICT 2019-2020

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

Topic One: Using Computers Safely, Effectively & Responsibly	Topic Two: E-Safety Project: Presenting Information	Topic Three: Understanding Computers: An Introduction to Computer Science	Topic Four: Games Programming in Scratch Topic Five: Control with Flowol

Term		Autumn Term 1 (8 weeks)		Autumn Term 2 (7 weeks)		Spring Term 1 (6 weeks)		Spring Term 2 (6 weeks)		Summer Term 1 (5 weeks)		Summer Term 2 (7 weeks)
1	02/09	Induction to school network & resources	04/11	Lesson 6: Assessment & Booklets	06/01	Lesson 1: Input/Process/Output	24/02	Lesson 1: Simple movement (sprites & coding)	20/04	Lesson 4: Randomisation (operators)	01/06	Lesson 2: Sequencing
2	09/09	CS Baseline Assessment	11/11	Lesson 1: Audience & purpose	13/01	Lesson 2: The CPU	02/03	Lesson 2: Lives & scoring (variables)	27/04	Lesson 5: Shooting & jumping***	08/06	Lesson 3: Sensors
3	16/09	CS Baseline Assessment	18/11	Lesson 2: Planning a multimedia presentation	20/01	Lesson 3: Binary	09/03	Lesson 3: Adding a new level (broadcast scripts)	04/05	Lesson 6: Sound	15/06	Lesson 4: Subroutines
4	23/09	Lesson 1: File Management	25/11	Lesson 3: Creation of assets	27/01	Lesson 4: Binary Addition	16/03	Year 7 Assessment Preparation	11/05	Lesson 7: Assessment & Booklets	22/06	ENRICHMENT WEEK
5	30/09	Lesson 2: Social networking	02/12	Lesson 4:a Creation of interactive multimedia presentation	03/02	Lesson 5: Storage Devices	23/03	Year 7 Exams	18/05	Lesson 1: Flowcharts	29/06	Lesson 5: Actuators
6	07/10	Lesson 3: Keeping your data safe	09/12	Lesson 4b: Creation of interactive multimedia presentation	10/02	Lesson 6: Assessment & Booklets	30/03	Year 7 Exam Feedback			06/07	Lesson 6: Variables
7	14/10	Lesson 4: Using email	16/12	Lesson 5: Assessment/Review							13/07	Lesson 7: Assessment & Booklets
8	21/10	Lesson 5: Searching the web										

Year 8 Overview

Topic One: Digital Animation with Adobe Animate	Topic Two: An Introduction to the BBC Micro:bit	Topic Three: Web Design using HTML & CSS	Topic Four: Introduction to Python Programming Topic Five: Computer Crime

Term	Autumn Term 1 (8 weeks)		Autumn Term 2 (7 weeks)		Spring Term 1 (6 weeks)		Spring Term 2 (6 weeks)		Summer Term 1 (5 weeks)		Summer Term 2 (7 weeks)
1	02/09	CS Baseline Assessment	04/11	Lesson 6: Publishing an animation	06/01	Lesson 6: Assessment	24/02	Lesson 5: Web Forms	20/04	Year 8 Assessment Preparation	01/06	Lesson 1: Scams
2	09/09	CS Baseline Assessment	11/11	Lesson 7: Assessment & Booklets	13/01	Lesson 1: HTML	02/03	Lesson 6: Assessment & Booklets	27/04	Year 8 Exams	08/06	Lesson 2: Hacking
3	16/09	Lesson 1: 'Frame-by-Frame' animation	18/11	Lesson 1: Creating Your First Program	20/01	Lesson 2: CSS	09/03	Lesson 1: Introduction to Python	04/05	Year 8 Exam Feedback	15/06	Lesson 3: Protecting Personal Data
4	23/09	Lesson 2: 'Motion Tweening'	25/11	Lesson 2: Guess The Direction	27/01	Lesson 3: Planning a Website	16/03	Lesson 2: Numbers & Arithmetic	11/05	Lesson 5: Iteration – While loops	22/06	ENRICHMENT WEEK
5	30/09	Lesson 3: Text, Buttons & ActionScript	02/12	Lesson 3: Safe Lock System	03/02	Lesson 4: Developing a Website	23/03	Lesson 3: Selection – IF statements	18/05	Lesson 6: Assessment & Booklets	29/06	Lesson 4: Copyright
6	07/10	Lesson 4: Planning an animation	09/12	Lesson 4: Mid-point Review	10/02	Lesson 4: Developing a Website	30/03	Lesson 4: Writing Algorithms			06/07	Lesson 5: Health & Safety
7	14/10	Lesson 5a: Creating an animation part 1	16/12	Lesson 5: Safe Lock System in Python							13/07	Lesson 6: Assessment & Booklets
8	21/10	Lesson 5b: Adding sound										

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Year 9 Overview

Topic One: Sound Editing with Audacity	Topic Two: Advanced Python Programming	Topic Three: An Introduction to Computer Networks	Topic Four: Creating Digital Graphics with Adobe Photoshop

Term		Autumn Term 1 (8 weeks)		Autumn Term 2 (7 weeks)		Spring Term 1 (6 weeks)		Spring Term 2 (6 weeks)		Summer Term 1 (5 weeks)		Summer Term 2 (7 weeks)
1	02/09	CS Baseline Assessment	04/11	Lesson 5: Testing & exporting	06/01	Lesson 1: Recap of the basics	24/02	Overun / Feedback & response	20/04	Lesson 6: Assessment & Booklets	01/06	Lesson 4: Creating a Movie Poster Pt 1
2	09/09	CS Baseline Assessment	11/11	Lesson 6: Assessment & Booklets	13/01	Lesson 2: Loops	02/03	Lesson 1: The Internet	27/04	Overun / Feedback & response	08/06	Lesson 5: Creating a Movie Poster Pt 2
3	16/09	Lesson 1: Digitising Sound	18/11	Year 9 Exam Preparation 1	20/01	Lesson 3: Lists	09/03	Lesson 2: Connectivity	04/05	Lesson 1: Vector Graphics	15/06	Lesson 5: Creating a Movie Poster Pt 3
4	23/09	Lesson 2: Jobs in the Sound Industry	25/11	Year 9 Exam Preparation 2	27/01	Lesson 4: Procedures	16/03	Lesson 3: Topologies	11/05	Lesson 2: Bitmap Graphics	22/06	ENRICHMENT WEEK
5	30/09	Lesson 3: Listening & planning	02/12	Year 9 Exam Preparation 3	03/02	Lesson 5: Functions	23/03	Lesson 4: Client-Server networks	18/05	Lesson 3: Conveying Meaning	29/06	Lesson 5: Creating a Movie Poster Pt 3
6	07/10	Lesson 4: Creating an advertisement	09/12	Year 9 Exams	10/02	Lesson 6: Assessment & Booklets	30/03	Lesson 5: Encryption			06/07	Lesson 6: Assessment & Booklets
7	14/10	Lesson 4: Creating an advertisement	16/12	Year 9 Exam Feedback							13/07	Overun / Feedback & response
8	21/10	Lesson 4: Creating an advertisement										