



Week	43	44	45	46
W/C Date	25-Jun	2-Jul	9-Jul	16-Jul
Topic	Intro to course - Folders Unit 1 Unit 1 Components of a Computer Unit 1 Internal Components	Unit 1 Peripherals Unit 1 Operating Systems Unit 1 Systems Software	Unit 1 Types of Application Software Prepare for Assessment Assessment	Unit 1 Primary Storage Unit 1 Secondary Storage Unit 1 PLC Review of Assessment
Key Objectives	Create folder structures for the course Identify components of a computer system Identify Internal Components of a Computer System	Identify a range of peripherals Explain what is meant by the term operating systems Describe what systems software is	Identify a range of application software Demonstrate revision techniques Complete an assessment	Describe what is meant by primary storage, identifying different mediums Describe what is meant by secondary storage, identifying different mediums
Assessment	Star Mark Internal Components		Star Mark Assessment	
Homework	SAM: Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Theory-Hardware and Software-Computing Technologies+	SAM: Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Theory-Hardware and Software-Inputs	SAM: Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Theory-Hardware and Software-Storage	SAM: Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Theory-Hardware and Software-Embedded Systems

Department Year 19 grades 3-8 long term plan

	Assessment weeks
	Moderation week
	Data Capture
	STAR marking
	Exit Poll

Key Skills to be Covered:

Unit 1 Computer systems, Unit 2 Computational Thinking, Algorithms and Programming and Unit 3 Programming Project

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
W/C Date	03-Sep	10-Sep	17-Sep	24-Sep	01-Oct	08-Oct	15-Oct		29-Oct	05-Nov	12-Nov	19-Nov	26-Nov	03-Dec	10-Dec	17-Dec		
Topic	Unit 1 Components of a Computer Unit 1 Components of a Computer Unit 1 Internal Components	Unit 1 Internal Components Unit 1 Peripherals Unit 1 Peripherals	Unit 1 Operating Systems Unit 1 Operating Systems Unit 1 Systems Software	Unit 1 Systems Software Unit 1 Systems Software Unit 1 Types of Application Software	Unit 1 Types of Application Software Unit 1 Types of Application Software Review of Star Mark and Improvement	Revision for assessment Assessment Unit 1 Primary Storage	Unit 1 Primary Storage Unit 1 Secondary Storage Unit 1 Secondary Storage		Review of Star Mark and improvement Unit 1 Moral, Legal and Environmental Review of Assessment PLC	Unit 1 Moral, Legal and Environmental Unit 1 Moral, Legal and Environmental Unit 1 Moral, Legal and Environmental	Revision for final assessment Revision for final assessment Assessment	Revision for final assessment Revision for final assessment Official Exam Assessments	Unit 2 Boolean Logic Unit 2 Boolean Logic Unit 2 Boolean Logic	Unit 2 Boolean Logic Unit 2 Arithmetic Operations Feedback from Assessment and improvements	Unit 2 Arithmetic Operations Unit 2 Computational Thinking Unit 2 Flowcharts	Unit 2 Flowcharts Unit 2 Flowcharts Unit 2 Flowcharts		
Key Objectives	Identify components of a computer system, including internal	Identify internal components Describe the use of a range of peripherals	Explain what an OS is Describe different systems software	Describe the use of systems software Identify a range of apps	Describe the use of application software Identify revision techniques	Complete Assessment Explain what is meant by primary storage	Explain what is meant by Secondary Storage Describe the Data Protection Act		Explain different laws relating to Computing	Explain the environmental impact computers have on society	Identify appropriate Revision techniques for exam	Identify appropriate Revision techniques for exam	Explain what Boolean logic is Demonstrate using Boolean logic	Demonstrate using Boolean logic Apply arithmetic operations to solve tasks	Describe what is meant by computational thinking Identify different flow chart shapes	Demonstrate problem solving skills using flow charts		
Assessment		Star Mark Peripherals			Star Mark Application Software							Star Mark Official Assessment			Star Mark Arithmetic Operations			
Homework	SAM: Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Theory-Hardware and Software-Types of Computer								SAM: Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Theory-Ethics-				SAM: Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Theory-Data Representation					
		Data Storage and Compression	Storage A	Storage B	Storage C	Understanding the CPU	The CPU		Ethical Legal Cultural and Environmental	Data Protection Act Basics	Copyright and Computer Misuse	Computer Misuse	Data Representation +	Data Representation 2+	Units Numbers and Characters +	Binary +		



Week	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
W/C Date	07-Jan	14-Jan	21-Jan	28-Jan	04-Feb	11-Feb		25-Feb	04-Mar	11-Mar	18-Mar	25-Mar	01-Apr	08-Apr		
Topic	Unit 2 Pseudocode Unit 2 Pseudocode Unit 2 Pseudocode	Unit 2 Binary / Denary Unit 2 Binary / Denary Unit 2 Binary / Denary	Assessment Programming Techniques Programming Techniques	Programming Techniques x3	Programming Techniques x3	Programming Techniques x3		Data Representation x3	Data Representation x3	Data Representation x3	Review of Assessment PLC Revision for final assessment Revision for final assessment	Official Exam Assessments Coursework Task Coursework Task	Coursework Task	Coursework Task		
Key Objectives	Identify different statements in pseudocode	Describe what binary is Apply binary to denary conversions	Explain a range of programming techniques	Demonstrate using a range of programming techniques	Demonstrate using a range of programming techniques	Demonstrate using a range of programming techniques		Explain how data is represented as images	Explain how data is represented as sound	Describe the difference between lossy and lossless compression	Identify appropriate Revision techniques for exam	Describe the programming project	Plan the programming project	Develop the programming project		
Assessment	Star Mark Pseudocode	Taken from Official Exam			Star Mark Programming Techniques					Star Mark Data Representation		Star Mark Official Assessment				
Homework	SAM: Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Theory-Data Representation			SAM: GCSE Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Problem Solving and Programming-Algorithm Design and Problem Solving				SAM: GCSE Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Problem Solving and Programming-Algorithm Design and Problem Solving								
	Binary 2+	Converting Binary into Denary	Converting Denary into Binary	Algorithms +	Algorithms	Algorithms A		Algorithms B	Algorithms C	Decomposition and Abstraction+	Programming Flow Control+	Evaluating Programs +	Testing Programs+	Solution Development		

Week	35	36	37	38	39	40	41	42
W/C Date	29-Apr	06-May	13-May	20-May		03-Jun	10-Jun	17-Jun
Topic	Coursework Task	Coursework Task	Coursework Task	Coursework Task		Coursework Task	Coursework Task	Coursework Task
Key Objectives	Develop the programming project	Develop the programming project	Develop the programming project	Test the programming project		Evaluate the programming project	Make improvements to the Project	Identify areas for improvement with the project
Assessment	Taken from Official Exam	Star Mark Development so far		Star Mark Testing			Star Mark Project	
Homework	SAM: GCSE Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Problem Solving and Programming-Programming					SAM: GCSE Computer Science-iGCSE Computer Science Courses-iGCSE Cambridge-Problem Solving and Programming-Programming		
	Handling Data in Programs	Operators	Programming Concepts	Inputs, Outputs and File Handling		Operations	Subroutines and Subprograms	Own Created

Week	43	44	45	46
W/C Date	24-Jun	1-Jul	8-Jul	15-Jul
Topic	Physical computing with the micro:bit and Inventors Kits x3	Physical computing with the micro:bit and Inventors Kits x3	Physical computing with the micro:bit and Inventors Kits x3	Physical computing with the micro:bit and Inventors Kits x3
Key Objectives	Demonstrate programming skills to complete physical computing challenges	Demonstrate programming skills to complete physical computing challenges	Demonstrate programming skills to complete physical computing challenges	Demonstrate programming skills to complete physical computing challenges
Assessment			Star Mark Program made	
Homework	SAM: Own micro:bit	SAM: Own micro:bit	SAM: Own micro:bit	SAM: Own micro:bit