

# Computing - Year 8 - Learning Journey 2023-2024

Week	Date	Key Construct	Topic	Assessment Objectives	Work that will be assessed
1 (Wed)	04.09.23	<b>KC 1</b> <b>Impact of Digital Technology</b>  <b>KC 3</b> <b>Computer Systems</b>	<b>Parts of a Computer System</b> CPU and RAM. Clock Speed and word-size. Graphics and network cards. Common input, output, storage & communication devices. Comparing magnetic, optical and solid-state storage.  <b>Computers in Control</b> Examples of embedded systems. Where they are used. Sensors, inputs, decisions and processing, forms of output.  <b>Contingency Lesson</b> - Print evidence, self-assess and RAP.	<b>1,1, 1.3</b>  <b>3.1, 3.2, 3.5</b>	<b>Written Report:</b> <b>Compare the performance of different computer systems.</b>  <b>Test:</b> <b>Computers in Control.</b>
2	11.09.23				
3	18.09.23				
4	25.09.23				
5	02.10.23				
6	09.10.23				
7	16.10.23				
Half term					
8	30.10.23	<b>KC 3</b> <b>Computer Systems</b>  <b>KC 2</b> <b>Working With Software &amp; Documents</b>  <b>KC 5</b> <b>Data Representation</b>	<b>Different Kinds of Software</b> Broad types of software. Need for operating systems and common features. Different kinds of software applications & utilities.  <b>Working with Files</b> Common file types for different kinds of data/application. Overview of compression and compressed files. Lifetime, management & safety of documents/data.  <b>Data Drop for books</b> <b>Contingency Lesson</b> - Print evidence, self-assess and RAP.	<b>1.1</b>  <b>2.3</b>  <b>3.3, 3.4</b>	<b>Written Report:</b> <b>Comparison of mobile and desktop operating systems.</b>  <b>Questions:</b> <b>Keeping your important data safe and usable.</b>
9	06.11.23				
10	13.11.23				
11	20.11.23				
12	27.11.23				
13	04.12.23				
14	11.12.23				
CHRISTMAS					
15(Tue)	02.01.24	<b>KC 1</b> <b>Impact of Digital Technology</b>  <b>KC 4</b> <b>Networks and Communications</b>	<b>Networks and Communication</b> Types of networks: LANs, WANs and PANs. Network devices: Switches, Wi-Fi adapters and routers. Sending data: Data Packets, addresses and protocols. Protecting data and networks: encryption and firewalls. Issues surrounding use of networks/internet and protection of data.	<b>4.1, 4.2, 4.3, 4.4, 4.5</b>	<b>Diagram of a small network.</b>  <b>Questions:</b> <b>PANs, LANs and WANs</b>
16	08.01.24				
17	15.01.24				
18	22.01.24				
19	29.01.24				
20	05.02.24				
Half term					
21	19.02.24	<b>KC 6</b> <b>Problem Solving and Programming</b>	<b>Algorithms to Solve Problems</b> Breaking problems down: decomposition and sub-tasks. Identifying important facts and rules using abstraction. Expressing solutions as flowcharts: Linear Search.  <b>Data Drop for books</b> <b>Contingency Lesson</b> - Print evidence, self-assess and RAP.	<b>6.1, 6.2, 6.3, 6.4, 6.5</b>	<b>Written Plan:</b> <b>Decomposition of Rock-Paper-Scissors game.</b>
22	26.02.24				
23	04.03.24				
24	11.03.24				
25	18.03.24				
26	25.03.24				
EASTER					
27	17.04.24		Exam Prep		Annual Exam.
28	24.04.24		Exam Prep		
29 (BH)	02.05.24		Annual Exams		
30	08.05.24		Annual Exams		
31	15.05.24		Exam RAP / Addressing Misconceptions		
32	22.05.24		Exam RAP / Addressing Misconceptions		
Half term					
33	05.06.24	<b>KC 6</b> <b>Problem Solving and Programming</b>	<b>Developing Computer Programs</b> Using variables, iteration and selection to solve problems. Create simple Rock-Paper-Scissors program Validating input data and making decisions about it. Counting things that happen. Programs that access 1D arrays using FOR and WHILE loops.  <b>Data Drop for books</b> <b>Contingency Lesson</b> - Print evidence, self-assess and RAP.	<b>6.6</b>	<b>Final Rock-Paper-Scissors program with test results.</b>
34	12.06.24				
35	19.06.24				
36	23.06.24				
37	03.07.24				
38	10.07.24				
39	17.07.24		Activities Week		

### Computing - Year 8 - Assessment Progress Tracker 2023-24

Name:			Autumn	Spring	Summer
Subject Target		Flightpath			
Annual Exam Grade:		BFL			

	Assessed Work	Key Constructs	Assessment Objectives	Flightpath Grade
Autumn Term Part 1	Written Report: Compare the performance of different computer systems.	KC 3 Systems	1.1 3.1, 3.2, 3.5	
Autumn Term Part 1	Test: Computers in Control.	KC 1 Impact Tech. KC 3 Systems	1.1, 1.3 3.1, 3.2, 3.5	
Autumn Term Part 2	Written Report: Comparison of mobile and desktop operating systems.	KC 1 Impact Tech. KC 2 Software & Documents KC 5 Data Rep.	1.1 2.3 3.3, 3.4	
Autumn Term Part 2	Questions: Keeping your important data safe and usable.	KC 1 Impact Tech. KC 2 Software & Documents	1.1 2.3 3.3, 3.4	
Spring Term Part 1	Diagram of a small network.	KC 4 Networks & Comm.	4.1, 4.2, 4.3, 4.4	
Spring Term Part 1	Questions: PANs, LANs and WANs	KC 4 Networks & Comm.	4.1, 4.3, 4.4, 4.5	
Spring Term Part 2	Decomposing Rock-Paper-Scissors game: sub-tasks, rules, key variables.	KC 6 Problems, Programming	6.1, 6.2, 6.3, 6.4, 6.5	
Summer Term Part 2	Final Rock-Paper-Scissors program with test results.	KC 6 Problems, Programming	6.6	