

KS3 CURRICULUM MAP COMPUTER SCIENCE

Systems & Using IT

Development

Programming

Modelling

Analysis

Curriculum Maps

Year 7

Yr7-T1a

Lesson	Topics	Descriptor
1	Introduction to the school network. <i>How do I access the school network?</i> <i>What is on the school network?</i>	Systems & Using IT
3	Base line testing	Systems & Using IT
2	Rules and behaviour online <i>How should I behave online?</i> <i>How do people behave online?</i>	Systems & Using IT
4	Hardware Basic PC components (diagram) The CPU Peripherals Input and output devices Storage and communications devices	Systems & Using IT
5	Software Translators, Operating Systems, Packages (applications), Utility Software	Systems & Using IT
6	Social Networks and e-safety <i>What is Social Networking?</i> <i>Give examples of Social networking?</i> <i>What are the advantages and disadvantages of social networking?</i> <i>Why are some services free?</i>	Systems & Using IT
7	e-safety <i>What are my rights and responsibilities?</i>	Systems & Using IT
8	Re-do Base line testing	Systems & Using IT

Yr7-T1b

Lesson	Topics	Descriptor
1	Introduction to programming through 'Scratch' – Simple program with image created and edited by student. Lesson 7 Cat & Dog.	Programming
2	Scratch Programming – Lesson 8 Cat & Dog.	Programming
3	Scratch Programming – Lesson 9 Eyes Bloodshot	Programming
4	Scratch Programming - Lesson 10 Racing Car Game	Programming
5	Scratch Programming - Lesson 11 Racing Car Game	Programming
6	Scratch Programming – Programming - Lesson 12 Racing Car Game	Programming
7	Scratch Program Documentation 1 Complete documenting program (for assessment).	Programming
8	Scratch Program Documentation 2 Complete documenting program (for assessment).	Programming

Yr7-T2a

Lesson	Topics	Descriptor
1	Improving search techniques Understanding of the Internet Understanding of search engines <i>What is a search engine?</i> <i>How can I improve my search techniques?</i>	Systems & Using IT
2	Improving search techniques <i>How do search engines rank their results?</i> <i>What data do search engines capture?</i>	Systems & Using IT
3	Understanding of copyright Copyright & Patents Act <i>What can I copy?</i> Searching and using information	Systems & Using IT
4	Who's information is it? Acknowledging copyrights when searching Referencing websites and other publications	Systems & Using IT
5	Word processing 1 Text editing Proofing Formatting	Systems & Using IT
6	Word processing 2 Tables Graphics/Images ClipArt/Shapes Columns.	Systems & Using IT

Yr7-T2b

Lesson	Topics	Descriptors
1	Desk Top Publishing 1 What should a promotional flyer look like? Creating a promotional flyer PROJECT	Systems & Using IT
2	Desk Top Publishing 2 Creating a promotional flyer PROJECT	Systems & Using IT
3	Desk Top Publishing 3 Creating a promotional flyer PROJECT	Systems & Using IT
4	Desk Top Publishing 4 Creating a promotional flyer PROJECT	Systems & Using IT
5	Desk Top Publishing 5 Creating a promotional flyer PROJECT	Systems & Using IT
6	Desk Top Publishing 6 Creating a promotional flyer PROJECT HAND IN PROJECT AS ASSESSMENT PIECE	Systems & Using IT

Yr7-T3a

Lesson	Topics	Descriptors
1-3	Binary 1 – intro Teaching about binary numbers Why Binary Simple operations on binary numbers Binary 2 - Conversions Binary-Decimal-Binary conversions Binary 3 – Arithmetic More complex conversions Simple binary arithmetic	Systems & Using IT
4	Binary Assessment	Systems & Using IT
5	Binary Logic	Systems & Using IT

Yr7-T3b

Lesson	Topics	Descriptors
1	Databases 1 – Lesson 1 <i>How do firms keep track of their customers?</i> <i>What are databases?</i> <i>Examples where databases are used</i> MS Access- Simple database components Tables,	Modelling
2	Databases 2 – Lesson 2 MS Access- Simple database components Queries, Forms	Modelling
3	Databases Project 1	Modelling
4	Databases Project 2	Modelling
5	Databases Project 3	Modelling
6	EXTRA Combining applications (MS Access) Mail merge functionality	Modelling
		Modelling

Year 8

Yr8-T1a

Lesson	Topics	Descriptors
1	Networks1 Transfer of information between computers	Systems & Using IT
2	Networks2 Topologies	Systems & Using IT
3	e-safety <i>What are the laws that pertain to IT?</i> <i>What are my rights?</i>	Systems & Using IT
4	Data Protection Relation to e-safety	Systems & Using IT
5	Sound editing Audio creation, editing, use, applications Sound editing Project -pt1 Create a radio commercial	Systems & Using IT
6	Sound editing Project –pt2 Create a radio commercial ctd.	Systems & Using IT
7	Sound editing Project –pt3 Create a radio commercial ctd.	Systems & Using IT

Yr8-T1b

Lesson	Topics	Descriptors
1	Document Sound Editing Project 1.	Systems & Using IT
2	Document Sound Editing Project 2.	Systems & Using IT
3	Document Sound Editing Project 3. Use as assessment piece	Systems & Using IT
4	Website Design – HTML pt1 <i>What is a web site?</i> <i>What should a website look like?</i> <i>Create a simple HTML page</i>	Systems & Using IT/Modelling
5	Website Design – HTML-pt2 <i>Create a simple HTML page ctd.</i>	Modelling
6	Website Design – HTML-pt3 <i>Create a simple HTML page ctd.</i>	Modelling
7	Web site Project 1 (Assessment)	Modelling
8	Web site Project 1 (Assessment) ctd.	Modelling

Yr8-T2a

Lesson	Topics	Descriptors
1	Instructions – 1	Systems & Using IT
2	Instructions - 2	Systems & Using IT
3	Instructions - 3	Systems & Using IT
4	Instructions – 4 Assessment (Exam questions)	Systems & Using IT
5	Python Programming Tutorial 1	Programming
6	Python Programming Tutorial 1 ctd.	Programming

Yr8-T2b

Lesson	Topics	Descriptors
1	Python Programming Tutorial 2	Programming
2	Python Programming Tutorial 2 ctd.	Programming
3	Python Programming Tutorial 3	Programming
4	Python Programming Tutorial 4	Programming
5	Python Programming Tutorial 4 ctd.	Programming
6	Python Programming Tutorial 5	Programming

Yr8-T3a

Lesson	Topics	Descriptors
1	Python Programming Tutorial 5 ctd.	Programming
2	Python Programming Tutorial 6	Programming
3	Python Programming Tutorial 6 ctd.	Programming
4	Python Programming Tutorial 7	Programming
5	Python Programming Tutorial 8 Assessment	Programming
6	Python Programming Tutorial 8 ctd. Assessment	Programming

Yr8-T3b

Lesson	Topics	Descriptors
1	Python Exercises Use 46 Simple Python Exercises.docx	Analysis, Development, Programming
2	Python Exercises Use 46 Simple Python Exercises.docx	Analysis, Development, Programming
3	Python Exercises Use 46 Simple Python Exercises.docx	Analysis, Development, Programming
4	Python Exercises Use 46 Simple Python Exercises.docx	Analysis, Development, Programming
5	Python – Project 3-pt1	Analysis, Development, Programming
6	Python – Project 4-pt2	Analysis, Development, Programming

Year 9

Yr9 -T1

Lesson	Topics	Notes	Descriptors
1	HTML/ JavaScript		Analysis, Development, Programming
2	HTML/ JavaScript		Analysis, Development, Programming
3	HTML/ JavaScript	Assessment Exercise	Analysis, Development, Programming
4	Database SQL		Analysis, Development, Programming
5	Database SQL		Analysis, Development, Programming
6	Database SQL	Assessment – Exam questions and homework	Analysis, Development, Programming

Yr9 –T2

Lesson	Topics	Notes	Descriptors
1	Python Project Coding (Album Chart, Phone Diag...etc)		Analysis, Development, Programming
2	Python Project Coding		Analysis, Development, Programming
3	Python Project Coding		Analysis, Development, Programming
4	Python Project Coding		Analysis, Development, Programming
5	Python Project Coding		Analysis, Development, Programming
6	Python Project Coding	Assess code to GCSE marking scheme	Analysis, Development, Programming

Yr9 –T3

Lesson	Topics	Notes	Descriptors
1	Python Project Writeup		Analysis
2	Pseudo Code/Flowcharts		Analysis
3	Testing Alpha		Analysis
4	Testing Beta		Analysis
5	General Project (Evaluation, etc)		Analysis
6	General Project (Evaluation, etc)	Assess writeup to GCSE marking scheme	Analysis