Computer Science – Year 10 Subject Overview

	Year					
	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Topic	1: Exploring User Interface Design Principles and Project Planning Techniques	1: Exploring User Interface Design Principles and Project Planning Techniques	2: Collecting, Presenting and Interpreting Data	2: Collecting, Presenting and Interpreting Data	2: Collecting, Presenting and Interpreting Data	2: Collecting, Presenting and Interpreting Data
Learning Objectives	A: Investigate user interface design for individuals and organisations A1 What is a user interface? A2 Audience needs. A3 Design principles A4 Designing an efficient user interface	What are Gantt Charts and Pert Charts and why do we use them? What are Smart targets and why are they useful? What are mood boards used for? What goes on a design?	A: Investigate the role and impact of using data on individuals and organisations A1 Characteristics of data and information A2 Representing information A3 Ensuring data is suitable for processing A4 Data collection	A5 Quality of information and its impact on decision making A6 Sectors that use data modelling. A7 Threats to individuals. A: Investigate the role and impact of using data on individuals and organisations	B: Create a dashboard using data manipulation tools B1 Data processing methods. B2 Produce a dashboard. C: Draw conclusions and review data presentation methods C1: Drawing conclusions based on the data	C2 How presentation affects understanding. B: Create a dashboard using data manipulation tools C: Draw conclusions and review data presentation methods
Key Vocabulary	BTech command words	BTech command words	BTech command words	BTech command words	BTech command words	BTech command words
Formative Assessment	Low stakes quizzes and assessment tasks	Low stakes quizzes and assessment tasks	Low stakes quizzes and assessment tasks	Low stakes quizzes and assessment tasks	Low stakes quizzes and assessment tasks	Low stakes quizzes and assessment tasks

Summative Assessment		Pearson set assignment. (PSA)				
Scaffolding for SEND	Recall quizzes, Guided reading activities, Challenge tasks.	Recall quizzes, Guided reading activities, Challenge tasks.	Recall quizzes, Guided reading activities, Challenge tasks.	Recall quizzes, Guided reading activities, Challenge tasks.	Recall quizzes, Guided reading activities, Challenge tasks.	Recall quizzes, Guided reading activities, Challenge tasks.
Careers	IT Support. Network Engineer IT Apprentice. Aftersales. Digital Technology Software Engineering Degree.	IT Support. Network Engineer IT Apprentice. Aftersales. Digital Technology Software Engineering Degree.	IT Support. Network Engineer IT Apprentice. Aftersales. Digital Technology Software Engineering Degree.	IT Support. Network Engineer IT Apprentice. Aftersales. Digital Technology Software Engineering Degree.	IT Support. Network Engineer IT Apprentice. Aftersales. Digital Technology Software Engineering Degree.	IT Support. Network Engineer IT Apprentice. Aftersales. Digital Technology Software Engineering Degree.
Links (prior knowledge, future knowledge)	Links from KS3 to A level	Links from KS3 to A level	Links from KS3 to A level	Links from KS3 to A level	Links from KS3 to A level	Links from KS3 to A level