Computer Science – Year 9 Subject Overview

Year 9												
	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6						
Topic	Python programming with sequences of data	Media-Animations	Data science	Representations to cybersecurity	Developing physical computing projects	Introduction to cyber security.						
Learning Objectives	Manipulating strings and lists. Creating a programming project	Creating 3D animations through object manipulation, and tweaking and adjusting light and camera angles	Using Data to investigate problems and make real-world changes	Identifying how users and organisations can protect themselves from cyberattacks.	Sensing and controlling with the micro bit/ Lego storm.	Identifying how users and organisations can protect themselves from cyberattacks.						
Key Vocabulary	Glossary Link	Glossary Link	Glossary Link	Glossary Link	Glossary Link	Glossary Link						
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	Inter and post topic tests.	Inter and post topic tests.	Inter and post topic tests.	Inter and post topic tests.	Inter and post topic tests.	Inter and post topic tests.						
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.	v Recall quizzes, Guided reading activities, Challenge tasks.						
Careers	IT Support. Network Engineer IT Apprentice. Aftersales.	IT Support. Network Engineer IT Apprentice. Aftersales.	IT Support. Network Engineer IT Apprentice. Aftersales.	IT Support. Network Engineer IT Apprentice. Aftersales.	IT Support. Network Engineer IT Apprentice. Aftersales.	IT Support. Network Engineer IT Apprentice. Aftersales.						

	Digital Technology					
	Software	Software	Software	Software	Software	Software
	Engineering	Engineering	Engineering	Engineering	Engineering	Engineering
	Degree.	Degree.	Degree.	Degree.	Degree.	Degree.
Links (prior	Links from KS2 to					
knowledge, future	e KS4	KS4	KS4	KS4	KS4	KS4
knowledge)						