Armfield Academy – Department of Computer Science – Key Stage 3

Year 8 Curriculum Overview

Half Term 1	
Date	**Enquiry Question(s)** – The Impact of Computers in Society
	Learning Questions
Week 1	Introduction to Computers in Society
Week 2	Computers in Healthcare
Week 3	Computers in Schools and Learning
Week 4	Computers in Transport and Infrastructure
Week 5	AI, Automation and Jobs
Week 6	Online Security and the Future of Tech
Half Term 2	
Date	**Enquiry Question(s)** – Understanding Computer Systems (Hardware Focus)
	Learning Questions
Week 1	What Is a Computer System?
Week 2	Input and Output Devices
Week 3	The Main Components Inside a Computer
Week 4	Central Processing Unit – Fetch Decode Execute Cycle
Week 5	Storage Devices and Media
Week 6	Peripheral Devices and Expansion
Half Term 3	
Date	**Enquiry Question(s)** – Algorithms
	Learning Questions
Week 1	What is an Algorithm?
Week 2	Decomposition
Week 3	Abstraction
Week 4	The Input Output Model
Week 5	Flowcharts
Week 6	Linear Search
Half Term 4	
Date	**Enquiry Question(s)** – Algorithms
	Learning Questions
Week 1	Binary Search
Week 2	Bubble Sort
Week 3	Merge Sort
Week 4	Insertion Sort
Week 5	Reteach Week
Half Term 5	
Date	**Enquiry Question(s)** – Audio & Video Editing Project Using Canva
	Learning Questions
Week 1	Using Text and Titles in Videos
Week 2	Adding Transitions and Effects
Week 3	Working with Images and Graphics
Week 4	Layering and Timing Elements
Week 5	Reviewing and Refining Your Project
Week 6	Final Presentation and Reflection
Half Term 6	
Date	**Enquiry Question(s)** – Coding Games with Microsoft MakeCode Arcade
	Learning Questions
Week 1	Introduction to Microsoft MakeCode Arcade
Week 2	Sprites and Movement
Week 3	Adding Objects and Scoring
Week 4	Adding Enemies and Health
Week 5	Levels and Challenges
Week 6	Testing, Sharing, and Reflecting