

Subject: Computer Science

Year group: 7

Department Curriculum Vision: Enabling students to understand and learn how to use technology effectively and safely,as well as, developing their computer coding skills, preparing them for the increasingly digital world.

	Autumn Term 1	Autumn Term 2
Content: (Know what...)	• School system • Esafety	• Networks
Skills: (know how...)	Log into the school system To access work from home. Make a copy and submit work on Google Classroom. How to stay safe online.	• What a network is made up of. • What hardware to required. • Advantages and disadvantages.

Key vocabulary	Cyber bullying Reporting Scam Impersonating.	Network Hardware Router Hub
Mid Term Assessment	Identifying dangers online. Where to seek help.	What a network is. How it all works What is good and not so good about having a network.
End Term Assessment	Identifying dangers online. Where to seek help.	What a network is. How it all works What is good and not so good about having a network.
	Spring 1	Spring 2
Content: (Know what...)	• Programming using Scratch with Digital literacy • Constants • Variables • Using operands • Assigning values	• Programming using Scratch with Digital literacy • Loops • Branching

Skills: (Know how...)	• Declare variables and constants. • Use operators correctly. • Able to assign values.	• Implement a looping construct. • Implement a selection construct. •
Key vocabulary	• Assign • Variable • Constant • operand	• Blocks • Looping • Iteration • Selection • Branching
Mid Term Assessment	Correct coding and be able to create a code.	Identify what different codes do. Create a code to resolve a problem.
End Term Assessment	Correct coding and be able to create a code.	Create a code to resolve a problem.
	Summer 1	Summer 2
Content:	• Inputs • Outputs	• Graphic design • Copyright material

(Know what...)	• Computer Memory • Vector images	• Search terms • AI introduction
Skills: (Know how...)	• To describe different computer components. • To explain how a computer works.	• To identify bias. • Identify signs for fake/real news. • To describe the purpose of different copyright laws. • To understand how AI works. • Benefits and drawbacks of AI.
Key vocabulary	• Inputs • Outputs • Process • Mouse • Scanner • Printer • monitor	• Bias • Fake • Real • Common creative • Copyright • Reinforcement learning • Supervised learning • Unsupervised learning
Mid Term Assessment	Identify inputs and outputs. Explain how a computer works in basic terms.	Define the different terms. Be able to explain the creative commons law.
End Term Assessment	Identify inputs and outputs. Explain how a computer works in basic terms.	Define the different terms. Be able to explain the creative commons law. Create a graphic piece. Understand how AI works and know the benefits and drawbacks.
Additional information		

Homework	• How to stay safe online • Research different ways to reduce your digital footprint • Name the hardware piece • Critically analyse the effectiveness of a computer generated graphic • Break down the following task so that it can be solved by a computer.
Extra curricular and enrichment opportunities	Tech Ambassadors Coding club Techni Girls
Useful links that will support learning	http://www.codeacademy.com https://senecalearning.com/ Key Stage Three Computing, CGP
How parents can support learning	Encourage students to have a go at Scratch programming. Speak to your child about the importance of staying safe online.