Medium-Term Planning
Subject: ICT

Term and Year:	Spring 1 2022
Teacher:	Miss O'Neil
Subject:	ICT
Vocabulary that will be taught:	1. Input 2. Output 3. Hard drive 4. Ram 5. CPU 6. GPU 7. Laptop 8. Desktop 9. Tablet 10. Memory

National Curriculum Objectives:

- Co2/1.2   use sequence, selection, and repetition in programs; work with variables and various forms of input and output

ICT Skills that will be taught and assessed:

• Understanding what the different components of a computer do and how they work together
• Drawing comparisons across different types of computers
• Learning what a server does
Using decomposition to explain the parts of a laptop computer
• Using decomposition to explore the code behind an animation
• Using repetition in programs
• Understanding that computers follow instructions
• Using an algorithm to explain the roles of different parts of a computer
• Using logical reasoning to explain how simple algorithms work
• Explaining the purpose of an algorithm
• Forming algorithms independently
Solving unplugged problems by decomposing them into smaller parts
• Using decomposition to understand the purpose of a script of code
• Using decomposition to help solve problems

• Identifying patterns through unplugged activities • Using past experiences to help solve new problems • Using abstraction to identify the important parts when completing both plugged and unplugged activities • Creating algorithms for a specific purpose		
	Focus of each lesson **'Can I...' Statement(s)**	**Activities/Key points**
Lesson 1	LO: To recognise basic inputs and outputs • I recognise some inputs and outputs • I understand that a computer follows instructions • I can suggest what the computer is doing	• Discuss the inputs and outputs • Children to draw the inputs and outputs • Children are to label the inputs and outputs.
Lesson 2	LO: To decompose a laptop • I can suggest a laptop's inputs and outputs • I recognise a laptop is made up of many parts • I can use logic to explain the purpose of some parts	• Discuss the difference between a laptop and a desktop in terms of inputs and outputs. • Discuss RAM, Hard drives and CPU.
Lesson 3	LO: To understand the purpose of computer parts • I can explain that a computer is made up of many parts • I can suggest the purpose of each part • I can follow an algorithm	• Discuss the difference between a CPU and GPU. • Use an algorithm to create a piece of artwork.

Lesson 4	LO: To understand the purpose of computer parts • I can explain that a computer is made up of many parts • I can suggest the purpose of each part • I can use a QR code	• Discuss the memory of a computer or laptop. • Hello Ruby to play memory pairs game. • Memory scavenger hunt.
Lesson 5	LO: To decompose a tablet computer • I recognise a tablet is a computer • I can compare similarities and differences across different types of computer • I can use logic to suggest what's inside a computer	• Discuss tablets and how they are used. • Watch the deconstruction of a tablet.