Holy Family Catholic School – Faculty of Mathematics and Technology

Subject – Computing Half-Term 2 Year 7

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Red Zone	Hinge Questions
Week 1 I understand what a computer is and what it does.	Computer, input, process, output, system	Hardware & Processing	What is a computer system used for?	I can describe a computer using the IPOS model. I can identify different examples of computers in real life.	**Create a diagram of a simple device (e.g. microwave or ATM) and label the input, process, and output stages.**	Which shows the correct IPOS sequence? A Input → Output → Process B Input → Process → Output C Process → Input → Output Answer: B
Week 2 I can identify different types of computer systems.	Desktop, laptop, server, embedded, mobile	Networks	Where do we use computers in daily life?	I can compare different types of computer systems and their uses. I can distinguish between general-purpose and embedded systems.	**Research two types of computers (e.g. a server and an embedded system) and explain how they are used in different environments.**	Which is an embedded computer? A Laptop B Desktop PC C Washing machine controller Answer: C
Week 3 I know what's inside a computer and what the components do.	CPU, RAM, storage, motherboard, power supply	Hardware & Processing	What parts make up the inside of a computer?	I can label internal hardware components. I can explain the function of each component.	**Label a diagram of a computer's internal hardware and describe the function of each part.**	Which component temporarily holds data and programs in use? A RAM B Power supply C Motherboard Answer: A
Week 4 I understand what the CPU is and how it works.	CPU, core, clock speed, FDE	Hardware & Processing	What is the purpose of the CPU?	I can describe the role of the CPU.	**Draw and explain the Fetch-Decode-Execute cycle using a simple step-by-step cartoon or storyboard.**	What happens in the decode stage? A The CPU interprets the instruction B The CPU collects the next instruction

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	(fetch-decode-execute)			I can explain how the CPU processes instructions		C The CPU carries out the instruction Answer: A
Week 5 I can explain how memory and storage work together in a computer.	RAM, ROM, HDD, SSD, volatile, non-volatile	Hardware & Processing	What's the difference between memory and storage?	I can compare RAM and storage devices. I can explain why both are needed in a computer.	**Create a table comparing RAM, ROM, SSD, and HDD. Include speed, size, and purpose.**	Why is an SSD needed as well as RAM? A SSD stores files when power is off B SSD executes CPU instructions C RAM permanently saves files Answer: A
Week 6 I can identify and describe input and output devices.	Input, output, peripherals, sensor, actuator	Hardware & Processing	How do we interact with computers?	I can identify common input and output devices. I can explain their role in the IPOS cycle.	**Match input/output devices to real-world tasks (e.g. microphone – recording voice) and justify your choices.**	Which pair is correctly matched? A Microphone – output B Monitor – input C Keyboard – input Answer: C

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Week 7 I can show what I've learned about how computers work.	All above	All above	What have you learned about computer hardware?	I can demonstrate knowledge of hardware through quiz and project. I can explain how a computer system works from input to output.	**Create a poster or short presentation: "How a Computer Works" – Include key hardware components and explain IPOS.**	An ATM reads a card, checks details and displays a message. Which is the processing stage? A Reading the card B Checking the details C Displaying a message Answer: B