

Holy Family Catholic School – Faculty of Mathematics and Technology

Subject – Computing

Half-Term 2

Year 7

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Hinge Question	Red Zone
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.	Which of the following best describes a computer using the IPOS model? A. A device that only stores information B. A system that takes input, processes it, and produces output C. A machine that only displays output D. A tool that only connects to the internet	Create a diagram of a simple device (e.g. microwave or ATM) and label the input, process, and output stages.

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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.	Which of these is an example of an embedded system? A. Laptop B. Server C. Washing machine controller D. Desktop PC	Research two types of computers (e.g. a server and an embedded system) and explain how they are used in different environments.
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.	Which component is responsible for temporarily storing data while the computer is running? A. CPU B. RAM C. Hard drive D. Power supply	Label a diagram of a computer's internal hardware and describe the function of each part.

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Week 4 I understand what the CPU is and how it works.	CPU, core, clock speed, FDE (fetch-decode-execute)	Hardware & Processing	What is the purpose of the CPU?	I can describe the role of the CPU. I can explain how the CPU processes instructions	What is the correct order of the Fetch-Decode-Execute cycle? A. Execute → Decode → Fetch B. Decode → Fetch → Execute C. Fetch → Decode → Execute D. Fetch → Execute → Decode	Draw and explain the Fetch-Decode-Execute cycle using a simple step-by-step cartoon or storyboard.
Week 5 I can explain how memory and storage work	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	Which of the following is non-volatile storage? A. RAM	Create a table comparing RAM, ROM, SSD, and HDD. Include speed, size, and purpose.

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together in a computer.				both are needed in a computer.	B. ROM C. Cache memory D. Registers	
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.	Which of these is an output device ? A. Keyboard B. Microphone C. Printer D. Scanner	Match input/output devices to real-world tasks (e.g. microphone – recording voice) and justify your choices.
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	Which statement best explains how a computer system works? A. Computers only store data permanently.	Create a poster or short presentation: "How a Computer Works" – Include key hardware components and explain IPOS.

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				from input to output.	B. Computers only process data without input or output. C. Computers use input devices, process data, and produce output through output devices. D. Computers only run programs without interacting with users.	