

Holy Family Catholic School – Faculty of Maths & Technology Spring Half-Term 1 Year 9 Computing

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Hinge Questions for this lesson	Red Zone
Week 1 Understand what a computer network is and why networks are used	Network, device, node, data, share	Data & Data Representation Hardware & Processing Communication & Networks Information Technology	What is hardware? What is software?	I can define a network I can give two reasons why networks are used	Is a USB stick a network? Why/why not?	Write a definition of a network and explain two benefits of using networks in a school.
Week 2 Understand what a LAN is and where it is used	LAN, switch, router, Ethernet, Wi-Fi	Data & Data Representation Hardware & Processing Communication & Networks Information Technology	What is a network? Name one benefit	I can define a LAN I can identify real-world LAN examples	Is a school network a LAN or WAN? Explain.	Label and annotate a diagram of a school LAN, identifying at least three components.
Week 3 Understand what a WAN is and how it differs from a LAN	WAN, ISP, leased line, geography	Data & Data Representation Hardware & Processing Communication & Networks Information Technology	Define LAN and give an example	I can define a WAN I can state one difference between LAN and WAN	Is the internet a WAN?	Compare a LAN and a WAN using two differences and one example of each.
Week 4 Understand how the Internet works	Internet, IP address, packet, DNS, protocol	Data & Data Representation Hardware & Processing Communication & Networks Information Technology	LAN vs WAN, ISP definition	I can describe the internet as a network of networks I can explain how data is sent in packets	Does the internet belong to one company?	Explain how data travels from one computer to another across the internet using key vocabulary.
Week 5 Understand	Malware, virus, phishing,	Data & Data Representation Hardware & Processing	Name one network type and its use	I can identify three network threats	Is phishing a technical or human-based attack?	Choose one network threat and explain how it could affect a school network.

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common network threats	hacking, brute force	Communication & Networks Information Technology		I can explain how one threat works		
Week 6 Understand how networks are protected	Firewall, encryption, authentication, antivirus, passwords		Match threats to descriptions	I can link prevention methods to threats I can explain why security is important	Does a firewall stop all attacks?	Match three network threats to suitable prevention methods and justify each choice.