Holy Family Catholic School – Faculty of Mathematics and Technology
Subject – Computing   Half-Term 2   Year 9

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Hinge Question	Red Zone
Week 1 You and Your Data I will understand what personal data is, how it is used, and how to protect it online.	Personal Data, Privacy, GDPR, Data Protection Act, Encryption, Password	Data & Data Representation Information Technology	What types of personal data do you share online? Why is it important to protect it?	I can identify examples of personal and sensitive data. I can explain how data is stored and shared online. I can suggest strategies for keeping data safe.	Which of the following is considered *personal data*? A) Your favourite colour B) Your home address C) The name of your pet D) A random number	**In your own words, explain what personal data is and give three ways to keep it secure online.**
Week 2 Social Engineering I will learn how attackers manipulate people into giving away information.	Social Engineering, Phishing, Pretexting, Baiting, Tailgating, Impersonation	Networks	What is phishing? Can you identify signs of a suspicious email or message?	I can explain what social engineering is. I can recognise different types of attacks. I can describe how to protect myself from them.	Which of these is the best example of *phishing*? A) An email pretending to be your bank asking for login details B) A friend sending you a funny meme C) A website asking you to set a strong password	**Analyse this fake email and highlight clues that show it's a phishing attempt.**

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					D) A teacher reminding you of homework	
Week 3 Script Kiddies I will learn who script kiddies are and how they use malicious code.	Hacker, Script Kiddie, Malware, Virus, Worm, Trojan, Exploit	Networks	What is malware? How does a virus differ from a worm?	I can define what a script kiddie is. I can explain how malware is created and spread. I can identify methods to prevent infection.	What is a *script kiddie*? A) A professional hacker who writes original malware B) A beginner who uses existing malicious code without fully understanding it C) A programmer who creates antivirus software D) A child learning to code safely	**Research and explain how antivirus software protects against script kiddies.**

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Week 4 Rise of the Bots I will learn how bots and botnets work and how they are used in cyber-attacks.	Bot, Botnet, DDoS, Zombie Computer, Command & Control	Networks	What is a botnet? How can they be controlled remotely?	I can explain how bots and botnets work. I can describe how DDoS attacks affect systems. I can suggest methods to prevent bot infections.	What is a *botnet*? A) A single computer infected with malware B) A group of computers controlled remotely to perform attacks C) A secure network used by businesses D) A firewall that blocks malicious traffic	**In your own words, describe how a DDoS attack works using a botnet.**
Week 5 Networks I will learn how computer networks connect and share data securely.	LAN, WAN, Router, Firewall, IP Address, Protocol, Encryption	Networks	What is a network? What is the difference between a LAN and WAN?	I can explain how data travels across a network. I can describe common network devices and their roles. I can explain why network security is important.	What is the main difference between a LAN and a WAN? A) LANs are wireless, WANs are wired B) LANs cover small areas, WANs cover large areas	**Draw and label a simple network diagram showing how devices connect and share data securely.**

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					C) LANs are secure, WANs are insecure D) LANs use routers, WANs do not	
Week 6 Under Attack! I will learn how to identify, prevent, and respond to different types of cyber-attacks.	Cyber Attack, Ransomware, Firewall, Intrusion, Mitigation, Recovery	Networks	What are the most common types of cyber-attack? How can they be prevented?	I can describe different forms of cyber-attacks. I can explain security measures and recovery processes. I can apply prevention strategies in given scenarios.	Which of the following is an example of *ransomware*? A) A virus that deletes files immediately B) Malware that locks your files and demands payment to unlock them C) A worm that spreads across a network automatically D) A phishing email asking for your password	**Create a flowchart showing how an organisation should respond to a cyber-attack.**

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Week 7 Review & Cyber Challenge I will consolidate my understanding of cyber security and apply it in a practical challenge.	Cyber Security, Data Protection, Malware, Encryption	Data & Data Representation	What have you learned about protecting data and networks?	I can apply knowledge from across the unit. I can identify risks and choose appropriate countermeasures. I can present or demonstrate my learning effectively.	Which of these is the *best strategy* to stay safe online? A) Using the same password for all accounts B) Ignoring software updates C) Using strong, unique passwords and enabling two-factor authentication D) Sharing personal data freely on social media	**Create a digital poster, short video, or presentation explaining how to stay safe online and prevent cyber attacks.**