Holy Family Catholic School – Faculty of Mathematics and Technology

Subject – Computing Half-Term 2 Year 9

Learning Intention	Vocab	Concept	Retrieval	Success Criteria	Red Zone	Hinge Questions
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.	In your own words, explain what personal data is and give three ways to keep it secure online.	Which is the safest way to protect personal data online? A. Use the same password everywhere B. Use strong, unique passwords and two-factor authentication C. Share passwords with friends Answer: B
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.	Analyse this fake email and highlight clues that show it's a phishing attempt.	An email claims to be from your bank and asks you to click a link to verify your password. What is this most likely? A. Phishing B. Encryption C. A software update Answer: A
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.	Research and explain how antivirus software protects against script kiddies.	Which statement about a computer worm is correct? A. It must be attached to a legitimate program B. It can spread between computers without user action C. It is always harmless Answer: B

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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.	In your own words, describe how a DDoS attack works using a botnet.	What is a botnet? A. A group of infected devices controlled remotely B. A secure school network C. A single antivirus program Answer: A
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.	Draw and label a simple network diagram showing how devices connect and share data securely.	Which statement is correct? A. A WAN only connects devices in one classroom B. A router directs data between networks C. A firewall stores all files Answer: B
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.	Create a flowchart showing how an organisation should respond to a cyber-attack.	A computer displays a ransomware demand. What should you do first? A. Pay immediately B. Disconnect it from the network and report the incident C. Share the message with friends Answer: B

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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.	Create a digital poster, short video, or presentation explaining how to stay safe online and prevent cyber attacks.	Which action best protects an account from phishing? A. Open unexpected links to check them B. Reuse a short password C. Verify messages independently and use two-factor authentication Answer: C