Holy Family Catholic High School

Subject	Year	Term
Computer Science	**10**	

Topic
Security

Content - Intent

Prior Learning (Topic): Networks

Passive and active attacks on networks. Hackers, malware, viruses, SQL injection. Counter-measures to protect systems from attack. Understand the principles of each for of attack, the purpose of the attack and how the attack is used.

Future Learning: Algorithms, Ethical and Legal, Programming

What Knowledge and Skills will be Taught (Implementation)	How will your understanding be assessed and recorded (Impact)
The main types of system attacks that take place around the world, including DDOS, and how these can be countered. Threats to networks from hacking and how they can be tackled, including how malware is used and how people are the weakest point in most systems	A test in class based on past questions and on those provided by the exam board which are part of the end of unit test package. Students will be given a grade based on published grade boundary data. Suggestions on how to improve answers to the next grade boundary will be provided. There will be interim on-line testing throughout the unit.
How a good network policy can protect a network from attack. Ways to prevent overcome possible threats happening to a Network.	A test in class based on past questions and on those provided by the exam board which are part of the end of unit test package. Students will be given a grade based on published grade boundary data. Suggestions on how to improve answers to the next grade boundary will be provided. There will be interim on-line testing throughout the unit.

How can parents help at home?

Parents can help by ensuring revision and homework is completed.

Helpful further reading and discussion (Including reading and Vocabulary List)

Reading	Vocabulary List	
GP Computer Science revision book	Virus	Antimalware
GCSE pod	Malware	Antivirus
Smart Revise	DOS	SQL injection
Computer Science UK	DDOS	
Teach ICT	Firewall	
ISAAC Computing	Anti-virus	
YouTube – Craig 'n' Dave	Worm	
	Trojan	