Foxford Learning Plan

Year 7

Cyber Security

Key Vocabulary

Password	A string of characters that allows access to a computer system or service.
Personal data	Also known as personal information or personally identifiable information, is any information related to an identifiable person.
Malware	Software that is specifically designed to disrupt, damage, or gain unauthorized access to a computer system.
Virus	A piece of code which is capable of copying itself and typically has a detrimental effect, such as corrupting the system or destroying data.
Worm	Malware that can propagate or self-replicate from one computer to another without human activation after breaching a system.
Cipher	Converts the original message, called plaintext, into ciphertext using a key to determine how it is done.
Encryption	The method by which information is converted into secret code that hides the information's true meaning.
Decrypt	The method by which information is converted back into plan text after it was encrypted.
Brute force	A hack that uses trial-and-error to guess possible combinations for passwords

Key Skills

Over the course of the topic, I will be able to: -

- Set a strong and secure password
- Identify what personal data is and explain why it should be kept secure
- Explain what a virus is and how to protect yourself from it
- Explain what malware is and how to protect yourself from it
- Explain what a worm is and how to protect yourself from it
- Explain what a cipher is and how to protect yourself from it
- Explain encryption and decryption
- Encrypt and decrypt messages in a way similar to how the computer does to keep information secure
- Explain what a brute force attack is and how to protect yourself from it





I will Understand

1. How to create a strong and secure password as well as why I should have one
2. What personal data is and why it is important for me to keep mine safe as well as how I can keep it safe
3. What a virus is and how I can help keep myself safe from one
4. What malware is and how I can help keep myself safe from it
5. What a worm is and how I can help keep myself safe from it
6. What a cipher is and how it works as well as why they are so useful in computing
7. How to encrypt and decrypt messages, like what takes place in a computer
8. How a brute force attack works and how I can help keep myself safe from it