

COMPUTING

Pupil year: **Lower 4 (Yr 8)**

Head of Department: **Mrs L Burt**

SUBJECT OVERVIEW

Introduction to Computer Viruses

Learning Objective: On completion of this unit students will have an understanding of Computer Viruses – How to prevent them and how they are spread.

Digital Literacy

Learning Objective: On completion of the unit students will have an understanding of Copyright, Online Identity, Protecting Online Reputations and Safe Social Networking. This work continues from the work students have completed in Year 7 and we stay learning with [Common Sense Media](#).

QR Codes

Learning Objective: On completion of this unit students will have learnt how to create and use QR Codes and studied the use of them in advertising and media.

Tynker, Scratch and Code.Org

Learning Objective: In this unit of work students will build on their use of Tynker in Year 7 and will study the next scheme of work using Blockly and [Tynker](#) Online. They will also study [Scratch](#) and build a series of projects. We also use a range of projects from [Code.Org](#)

Inside the Computer

Learning Objective: On completion of this unit students will have looked at the insides of a machine, plus studied topics such as hardware and software, input and output devices.

Cyber Security

Learning Objective: On completion of this unit students will have studied issues such as Cyber Crime, Spyware, Malware, Phishing and Spam.

Ciphers and Codes

Learning Objective: On completion of this unit students will have studied a variety of codes, such as The Caesar Cipher and will have look at Case Studies as to how Codes and Ciphers have been used historically in Computing. We will also study [Bletchley Park](#) in relation to interception and decoding.