Bishop Heber High School

Subject	Year	Term
Computer Science	7	2

Topic

Scratch and Computer Crime

Content (Intent)

Prior Learning (Topic) Computational thinking

Scratch, graphics-based programming, students to produce a fully working game using sequences of blocks. Basic constructs such as sequence, selection and iteration

Computer crime and its various manifestations, including malware, phishing, the laws that govern what you can and cannot do.

Future Learning (Topic) Small Basic

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
Programming and computer logic using Scratch. An introduction to how computers can be programmed, and the logic of computers. Students will be expected to design and build their own computer games. They will be expected to get their sprites to respond to keyboard and mouse clicks, change score, respond to external stimuli such as touching the wall of a maze, broadcast messages to other sprites.	Students will be given regular homework based on the work they do in class. Students will be given examples of scratch code and will be told to interpret. The level of the response will be judge based on pre-defined level descriptors. There will be a judgement based on the game that they produce
Computer crime. How crime is committed using computers, including the use of malware. How to protect a computer from being hacked, health and safety.	Students will be given regular homework that will involve testing their knowledge of crime and the law through the use of short answers and multiple choice. These will be marked in class and a discussion held about them. There will also be an end of unit test.

How can parents help at home?

Ensure homework is completed.

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading

The website scratch.org

For computer crime

Https://www.bbc.com/bitesize/guides/z9nk87h/revision/1

Vocabulary Lists

Variable
Concatenation
Logic
Sprite
Phishing
Malware
Virus
Hacking
Code
Distribute
Licence
Modify
Restrict
Source