



Subject	Year	Term
Computer Science	7	2
Topic		
Python and Cybersecurity		
Content (Intent)		
Prior Learning (Topic)	Computer Systems	
<p>Python, text-based programming. Students to produce a quiz using sequence and selection. Learning the basics of programming and the basic elements of defensive design.</p> <p>Computer crime and its various manifestations, including malware, phishing, the laws that govern what you can and cannot do.</p>		
Future Learning (Topic)	Computational Thinking	
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p>Programming and computer logic using python. An introduction to how computers can be programmed, and the logic of computers. Students will be expected to design and build their own quiz. They will be expected to accept input, validate it, and change the score.</p>	<p>Work will be recorded in an electronic workbook. Their code and workbook will be assessed. There will be an end of unit assessment on Teams.</p>	
<p>Computer crime. How crime is committed using computers, including the use of malware. How to protect a computer from being hacked, health and safety.</p>	<p>Work will be recorded in an electronic workbook. There will be an end of unit assessment on Teams.</p>	
How can parents help at home?		
<p>Talk about use of Social Media, discuss rules for using computers (PC, Laptop, Tablet, Mobile phone) at home.</p>		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
<p>Reading Python Tutorial (w3schools.com) For computer crime https://www.bbc.com/bitesize/guides/z9nk87h/revision/1</p>	<p>Vocabulary Lists</p> <ul style="list-style-type: none"> Variable IDE Sequence Selection IF Defensive design 	<ul style="list-style-type: none"> Virus Hacking Code Distribute Licence Modify Restrict Source