

KS3 Scheme of Work

Year 8 Artificial Intelligence and chatbots	8 Lessons	
 Aims: This unit of work is designed to introduce students to the GCSE subject, Computer Science. In Year 7, students learnt how to use blocky programming with the use of Scratch This year students will learn a text based programming language, Python. They will learn various skills through a project based task with a final outcome of being able to plan, design and create their own programmed chatbot. They will learn about Artificial Intelligence and the impact this has upon today's society and economy. Links to KS4: Collection of Information (Computer programming) Planning (Maths) Problem solving 		
Key Skills	Literacy Links:	Numeracy Links:
 To develop skills in logical thinking and the processes and planning involved. To learn how to problem solve and resolve issues that arise To learn to use features within python to make successful programs To learn how the computing world impacts the world around us 	Key Words: Programming, Algorithms, Variable, Conditional IF Statement, Loops, IDLE Shell, Artificial Intelligence	Opportunity to problem solve and logical think.
Assessment	Cross-Curricular Links	
 Students will be assessed on their understanding of programming through planning and creating a practical task using python. Knowledge Students will gain an understanding of how to begin creating a program in a text based programming language. Students will be assessed on their understanding of the keywords throughout the unit Research Students will consider how programming is used in the real world Students will consider how Artificial Intelligence has an impact on careers Planning Students will be required to plan and design their own chatbot program Skills Students should be able to demonstrate a range of skills in Python Evaluation Students should be able to assess the success of the program they have produced and respond to any issues they may encounter making the appropriate corrections 	 Maths – Problem solving and logical thinking English – speaking and listening. SMSC opportunities and British values enable students to develop their self-knowledge, self-esteem and self-confidence Online Safety Online security features to be aware of when creating programs The laws of Copyright and hacking 	
Opportunities for further learning		
 Homework will be given out twice during the unit to widen students understanding of programming and to consolidate knowledge gained. Artificial Intelligence – researching and developing an information leaflet Create a programming hint sheet using the key words and skills they have learnt throughout the python programming unit. 		