Curriculum Area: Year 9 Computing

2017/2018

Topics	Year Curriculum	How you can support learning at home, eg. books, websites, family learning through visits
Understand how sounds can be manipulated digitally in the form of binary digits. Use logical reasoning to compare the utility of alternative algorithms for the same problem. Explain how sound is converted from analogue to binary.	AP1	Computer Science Website from BBC introduces the topics which we will be covering in Y7. Please encourage your students to understand the main elements. http://www.bbc.co.uk/education/subjects/z34k7ty
Use an appropriate data structure in a program. Introduction to algorithms. Understand that an algorithm can be displayed as flow charts and pseudo code.	AP2	Computer Science Website from BBC introduces the topics which we will be covering in Y7. Please encourage your students to understand the main elements. http://www.bbc.co.uk/education/subjects/z34k7ty
Introduction to textual based programming language. Use of scratch to compare similarities between both graphic/ text language Understand how to develop simple programmes	AP3	Computer Science Website from BBC introduces the topics which we will be covering in Y7.

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Understand uses of Boolean logic in circuits and create truth tables for single gates. Understand the internal computer components of a computer system. Describe how internal components of a computer system communicate with one another.	AP4	Computer Science Website from BBC introduces the topics which we will be covering in Y7. Please encourage your students to understand the main elements. http://www.bbc.co.uk/education/subjects/z34k7ty
Design digital artefacts with appropriate validation routines to ensure trustworthiness of data. You can explain how digital certificates and digital signage provide information about trust worthiness. You can explain the importance of validating all data.	AP5	Computer Science Website from BBC introduces the topics which we will be covering in Y7. Please encourage your students to understand the main elements. http://www.bbc.co.uk/education/subjects/z34k7ty
E-Safety You can can explain how to protect online identity and privacy on a range of platforms. You understand the dangers of social media. You understand how to keep data safe online.	AP6	Computer Science Website from BBC introduces the topics which we will be covering in Y7. Please encourage your students to understand the main elements. http://www.bbc.co.uk/education/subjects/z34k7ty