Doha British School – Wakra
ICT
Curriculum Road Map -KS3/4

Intent

- ❑ To demonstrate proficiency in problem-solving techniques using a computer
- ❑ To demonstrate proficiency in the analysis of complex problems and the synthesis of solutions to those problems
- ❑ To demonstrate a breadth and depth of knowledge in the discipline of computer science

In Year 11...

- ❑ I will be exposed to how algorithms can be expressed using pseudo-code or flowcharts
- ❑ I will be able to apply 'computational thinking' in context, across both examined and non-examined assessment
- ❑ I will carry out a project involving following the Systems Development Life Cycle and producing documentation consisting of analysis, design, coding and testing

In Year 10...

- ❑ I will continue to use Python to extend my skills in programming
- ❑ I will learn about networks, hardware and data representation
- ❑ I will be looking at various aspects of ethical, moral, social and environmental Issues surrounding the use of computers

In Year 9...

- ❑ I will investigate a suitable app idea to create my own app
- ❑ I will follow the system life cycle when creating my app which will involve planning, designing, developing, testing and evaluation
- ❑ I will understand how algorithms are used
- ❑ I will be able to break down problems into sub tasks to complete tasks efficiently

In Year 8...

- ❑ I will understand how to deal with binary related arithmetic and how instructions are converted to computer/machine language
- ❑ I will Understand the uses of Encryption and Ciphers
- ❑ I will analyse cipher techniques and strategies in the modern world and the importance of keeping data encrypted to successfully transfer data
- ❑ I will create a database model based around collecting data for a project

In Year 7...

- ❑ I will understand E-safety and the risks involved and how to minimise them
- ❑ I will implement the knowledge learnt about safe ways of working to reduce health risks to myself
- ❑ I will look at the implementation of spreadsheets
- ❑ I will understand the importance of organised data and use a range of various functions and formulas to manipulate data.

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