**Year 9 Computer Science curriculum map**

**Beths Grammar School**

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| Beths Grammar School - Home**Term** | **INTENT** | **IMPLEMENTATION** | **IMPACT** |
| **Substantive Knowledge**  This is the specific, factual content for the topic, which should be connected into a careful sequence of learning. | **Disciplinary Knowledge (Skills)**  This is the action taken within a particular topic in order to gain substantive knowledge. | **Assessment opportunities**  What assessments will be used to measure student progress?  Evidence of how well students have learned the intended content. |
| **Autumn Term**  **1A**  **Year 9** | **Intent BOARD GAME PROJECT/COMPUTATIONAL THINKING**  Why is this taught now? | Pupils use a range of activities from Analysing, Designing, Developing a game using a variety of software applications to complete a gaming project.  Pupils also begin to develop skills using a range of Computational Thinking approaches including Abstraction and Decomposition. | Assessment of work produced.  Peer assessment  Classwork  Homework |
| Develop Computational thinking skills including abstraction and decomposition of a given problem.  Breaking down problems are every day skills and also a component within GCSE/A Level curriculum. |
| **Autumn Term**  **1B**  **Year 9** | **Intent**  Why is this taught now? |  |  |
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| **Spring Term**  **2A**  **Year 9** | **Intent JAVASCRIPT PROGRAMMING**  Why is this taught now? | Develop programming skills in an additional programming language other than Python to create webpage content.  Learn how to use HTML/Cascading Style Sheets for consistency across webpages. | Assessment of work produced.  Peer assessment  Classwork  Homework |
| Provides pupils with a range of coding languages (Python and JavaScript) and prepares pupils for GCSE/A Level. |
| **Spring Term**  **2B**  **Year 9** | **Intent**  Why is this taught now? |  |  |
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| **Summer Term**  **3A**  **Year 9** | **Intent ADVANCED PROGRAMMING (Python)**  Why is this taught now? | Using Python, pupils build on their programming skills covered in Y7-8  Pupils should be able to handle small programming projects that will assess understanding of sequence, selection and iteration and use all three constructs to complete mini projects/challenges. | Assessment of work produced in class.  Homework  End of Topic Assessment |
| Build on programming skills covered at Y7-8 in preparation for GCSE. |
| **Summer Term**  **3B**  **Year 9** | **Intent**  Why is this taught now? | Pupils will further develop and explore skills using Random functions and also read/write to text files. |  |
| Preparation for the GCSE Computer Science if taken as an option otherwise pupils will have gained a good level of Python programming skills.  Build on skills acquired during Y7/8 |