



Subject		Year	Term
Computer Science			
Topic			
Programming languages and Integrated Development Environments			
Content - Intent			
Prior Learning (Topic): Algorithms and Programming			
<p>Integrated Development Environment and its use in debugging code (interpreter) and creating executable code (compiler). Low- Level languages and High-Level language and the differences in what circumstances both should be used. The need for Translators when programming and the differences, benefits and drawbacks of using a compiler or an interpreter.</p>			
Future Learning: Networks, Programming			
What Knowledge and Skills will be Taught (Implementation)		How will your understanding be assessed and recorded (Impact)	
<p>The characteristics and purpose of different levels of programming language including High-level languages and Low-level languages. The characteristics of a compiler and an interpreter and why they are needed.</p>		<p>A test in class based on past questions and on those provided by the exam board which are part of the end of unit test package. Students will be given a variety of questions from across a wide variety of topics and asked to prepare answers for the questions</p>	
<p>Common tools and facilities available in an Integrated Development Environment (IDE). How Editors work and why they are used. Advantages and disadvantages of Error Diagnostics and a Run-Time Environment. Different forms of Translators and where they are used.</p>		<p>A series of problems from past exam papers, attempted in class and marked in class using peer assessment. Revision will be done at home through a series of exercises related to the topic</p>	
How can parents help at home?			
<p>Parents can help by ensuring revision and homework is completed.</p>			
Helpful further reading and discussion (Including reading and Vocabulary List)			
<p><b>Reading</b>            CGP Computer Science revision book            GCSE pod            Smart Revise            Computer Science UK            Teach ICT            ISAAC Computing            YouTube – Craig ‘n’ Dave</p>	<p><b>Vocabulary List</b>            High-level languages            Low-level languages            IDE            Translators            compiler            interpreter            Editors            Error Diagnostics</p>	<p>Run-Time Environment            Translators</p>	