

Year 11 Computer Science Curriculum Summary

Term	Unit / title	Threshold concepts / core knowledge / links to previous and future learning	Formative assessment / homework	Formal assessment
1	Component 2 6. Algorithms Interleaved with Practical programming	This term will focus on algorithms and writing effective algorithms using pseudocode and flowcharts. Students will practise using basic algorithmic skills such as abstraction and decomposition, and will use those skills in a practical context when working on challenges in python - Will will continue to embed programming skills learnt in year 10.	Homework: Weekly Cornell Notes activities based upon the next week's learning. Do NOW: Craig & Dave Tailored revision questions	Previous and current unit, cumulative assessment
2	Component 3 7. Programming theory	In this unit students will further explore how to represent their programming skills in a more formal way. This will be beneficial for them on the run up to their exams as all programming is assessed via a written paper. Students will continue to embed these new formal programming skills whilst using them contextually in programming challenges.	Homework: Weekly Cornell Notes activities based upon the next week's learning. Do NOW: Craig & Dave Tailored revision questions	Previous and current unit, cumulative assessment Internal Trial Examination
3	Component 2 8 Logic & Languages	In this term students will look at what is meant by boolean logic. They will discover how to write simple logic games and look into solving boolean equations. Students will also finalise their ever expanding knowledge base by looking at how different programming languages interact with each other. Students will continue to practise their programming skills, this will take place with a mixture of programming challenges using python and algorithm writing workshops using pseudocode/flowcharts.	Homework: Weekly Cornell Notes activities based upon the next week's learning. Do NOW: Craig & Dave Tailored revision questions	Previous and current unit, cumulative assessment
4	Component 2	In this term, students will be finalising preparations for their final	Do NOW:	Trial

		<p>trial exams</p> <p>All theory content delivered in this term will be based upon results from these final trial examinations.</p> <p>Students will also take time in this term to complete their final programming project. This will be immediately after their trial examination weeks.</p>	<p>Craig & Dave Tailored revision questions</p> <p>HOMEWORK: Ongoing revision activities</p>	examination
5		<p>In this term, students will be finalising preparations for the final exams. Students will receive support in the following ways.</p> <ul style="list-style-type: none"> - One to one conversations with the teacher on how they can move forward - Practice exam papers - Practice algorithm questions - Re teaching/recapping of content where this is required 	<p>Do NOW: Craig & Dave Tailored revision questions</p> <p>HOMEWORK: ongoing revision activities</p>	Final Examinations.