Northolt High School
Scheme of Learning

Committed to excellence

Year group: 13	Term: 1	Unit duration: 6 weeks	Number of lessons: 6	Unit title: Computational Thinking
Assessment outcome: To be able to convert a denary number to hex and binary and vice versa.			Fertile question? What is the use of hexadecimal in a computer science context?	

Key skills/concepts/knowledge that students should cover	Start RAG	End RAG	Literacy. Key vocabulary/subject terminology that students should cover
To be able to convert a denary number to binary Be able to convert a binary number to denary To explain the process of the conversion and what the values are for each unit Explain what hexadecimal is and how it relates to denary and binary Convert a denary number to hexadecimal using binary as a middle point in the calculation			Pattern recognition Decomposition Abstraction Algorithms Analysis Automation Generalisation Assessment Variables Logic Scheduling
Stretch. Key skills/concepts/knowledge that students should cover Split an algorithm into parts and recognise where each of the computational thinking techniques have been employed in a specific and case by case basis,			Suggested materials teachers could/should use TeachICT Computer Science Powerpoints/Worksheets
			Key home learning tasks students should complete to be set in lessons.