Northolt High School
Scheme of Learning

Committed to excellence

Year group: 10	Term: 2	Unit duration: 6 weeks	Number of lessons: 6	Unit title: **Computer Algorithms**
Assessment outcome: To know what a computer algorithm is and how it is used.			**Fertile question?** **Is algorithm the same as a formula?**	

Key skills/concepts/knowledge that students should cover	**Start RAG**	**End RAG**	**Literacy. Key vocabulary/subject terminology that students should cover**
Algorithms are sets of step-by-step instructions for the computer to follow. They are at the heart of all computer programs. **What is an input and output device?** **Why do flow charts matter?** **How to create your own pseudocode?** **How to avoid errors when automating.** **Design your own algorithm.** **understand and be able to use the different types of memory for your algorithms.**			**input** **process** **output** **constant** **variable** **memory** **value** **pseudocode** **flow chart** **start** **stop**
Stretch. Key skills/concepts/knowledge that students should cover **To be able to design your own algorithm in Python to form a necessary function and carry out a task. e.g. a calculator.**			**Suggested materials teachers could/should use** **TeachICT** **Computer Science Powerpoints/Worksheets**
			Key home learning tasks students should complete to be set in lessons.

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