

Year group	UCGS standard
13	- effectively apply the fundamental principles and concepts of computer science, including: abstraction, decomposition, logic, algorithms, data representation and mathematical skills. - demonstrate the capacity to think creatively, innovatively, analytically, logically and critically. - analyse problems in computational terms through practical experience of solving such problems, including writing programs to develop a complete solution. - discuss and critically analyse relationships between different aspects of computer science including societal and legislative impacts.
12	- effectively apply the fundamental principles and concepts of computer science, including: abstraction, decomposition, logic, algorithms, data representation and mathematical skills. - demonstrate the capacity to think creatively, innovatively, analytically, logically and critically. - analyse problems in computational terms through practical experience of solving such problems, including writing programs to develop a complete solution. - discuss and critically analyse relationships between different aspects of computer science including societal and legislative impacts.
11	- demonstrate relevant and comprehensive knowledge and understanding of fundamental concepts and principles including digital systems and societal impacts. - effectively apply fundamental concepts, principles and mathematical skills, using sustained analytical, logical and evaluative computational thinking, to a wide range of complex problems - plan the algorithm in pseudocode to develop and refine a complete solution that meets the requirements of a substantial problem
10	- demonstrate relevant and comprehensive knowledge and understanding of fundamental concepts and principles including digital systems and societal impacts. - effectively apply fundamental concepts, principles and mathematical skills, using sustained analytical, logical and evaluative computational thinking, to a wide range of complex problems - plan the algorithm in a flowchart to develop and refine a complete solution that meets the requirements of a substantial problem.

9	• demonstrate relevant and comprehensive knowledge and understanding of fundamental concepts and principles including digital systems and societal impacts. • effectively apply fundamental concepts, principles and mathematical skills, using sustained analytical, logical and evaluative computational thinking, to a wide range of complex problems. • understand the process of developing and refining a complete solution that meets the requirements of a substantial problem
8	• Understand that computers need precise instructions and be able to demonstrate relevant and comprehensive knowledge and understanding of fundamental concepts and principles including digital systems and societal impacts. • use computers safely and responsibly, knowing a range of ways to report unacceptable content and contact when online. • effectively apply fundamental concepts, principles and mathematical skills, using sustained analytical, logical and evaluative computational thinking to real world problems.
7	• Understand that computers need precise instructions and be able to demonstrate relevant and comprehensive knowledge and understanding of fundamental concepts and principles including digital systems and societal impacts. • use computers safely and responsibly, knowing a range of ways to report unacceptable content and contact when online. • effectively apply fundamental concepts, principles and mathematical skills, using sustained analytical, logical and evaluative computational thinking to real world problems.