Computer Science	**Principles of Computer Science** Pupils:	**Computational Analysis** Pupils:	**Analytical Problem Solving** Pupils:	**Use of ICT** Pupils:
Beginning	Can understand some of the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.	Can describe some problems in computational terms and have repeated practical experience of writing computer programs to partially solve such problems.	Can apply information technology, including familiar technologies, analytically to solve some problems.	With support, are creative users of information and communication technology.
Developing (A.R.E Y7)	Can understand and apply some of the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.	Can analyse some problems in computational terms and have repeated practical experience of writing computer programs to solve such problems.	Can apply information technology, including familiar technologies, analytically to solve problems.	With support, are mostly responsible, competent, confident and creative users of information and communication technology.
Secure (A.R.E Y8)	Can understand and apply most of the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.	Can analyse most problems in computational term and have repeated practical experience of writing computer programs to solve such problems.	Can evaluate and apply information technology, including new or familiar technologies, analytically to solve problems.	Are mostly responsible, competent, confident and creative users of information and communication technology for a given audience.
Confident (A.R.E Y9)	Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.	Can analyse problems in computational terms and have repeated practical experience of writing computer programs to solve such problems.	Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.	Are responsible, competent, confident and creative users of information and communication technology to meet given goals.
Exceptional	Can understand and accurately apply the fundamental principles and concepts of computer science, including generalisation and structured language.	Can accurately analyse problems in computational terms and have repeated practical experience of writing computer programs to solve such problems.	Can accurately evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems effectively.	Are responsible, competent, confident and creative users of information and communication technology for a wider or remote audience.
Beyond	Can understand, accurately apply and articulate the fundamental principles and concepts of computer science, including recursion and the limits of computation.	Can precisely analyse problems in computational terms and have repeated practical experience of writing computer programs to solve such problems using data structures like two-dimensional lists.	Can accurately evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems effectively and efficiently.	Are responsible, competent, confident and creative users of information and communication technology with due regard to ethical issues and legal frameworks.