Heamoor School Non-Negotiables
Computing skills should be taught when linked to projects where possible to ensure real world application

Computing

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Digital Literacy	Recognise common uses of information technology beyond school. Use technology both within school and beyond.	Select appropriate images to add to work. Use different font sizes, colours and effects. Develop an awareness of appropriate language in an email.	Use different font sizes, colours and images to communicate meaning for a given audience. Use presentation software. Navigate email folders. Use appropriate language in a simple email. Save digital content to cloud based storage system.	Use different font sizes, colours and images purposefully. Open received emails and save attachments to appropriate place. Choose recipient, forward and add attachments to an email. Save an email to draft and retrieve it before sending.	Know how to use digital tools responsibly to communicate. Use search technologies effectively and safely. Know what validity is, understand anyone can contribute on the internet.	Use search technologies and understand how results are ranked. Use digital devices to combine software and present data and information. Evaluate validity of a range of digital sources.	Use technology to accomplish challenging goals. Collect, analyse and evaluate data. Use a range of digital devices to combine different software and present data and information.
Computer Science	Begin to understand what algorithms are. Begin to use some logic to predict what will happen next in a program.	Know what algorithms are and how they are used. Understand how algorithms impact programming. Control something using simple instructions.	Understand that programmes are a sequence of simple instructions. Create and test a simple programme. Use a programme to control a physical hardware	To plan simple sequences with algorithms. Use logical reasoning to predict errors	Design a simple programme with a specific focus using algorithms to write the sequence. Use sequence selection and repetition in programmes. Detect and correct errors in algorithms and programmes	Design and write programmes that control simulations and physical systems. Work with variables and various forms of input and output to test programmes	Understand several key algorithms that reflect computational thinking for sorting and searching. Apply programming skills in a real world context
Information	Use technology beyond school.	Recognise how ICT is used beyond	Use technology to create and store	Create and implement	Create and implement a range	Create and implement a range	Use technology creatively to collect,

Technology	Begin to use technology to create simple programs	school. Use technology to create digital content	digital content. Create and implement simple programmes on digital devices. Use technology to retrieve, organise, and manipulate digital content.	programmes to accomplish given goals. Use technology to present data and digital content	of programmes to accomplish given goals. Use technology to collect and present data and digital content	of programmes and content to accomplish specific goals. Use technology to collect, analyse, evaluate and present data and digital content.	analyse, evaluate and present data and digital content. Use a range of programmes, systems and content to accomplish challenging goals
E Safety	Know who to talk to if they are worried. Use technology respectfully and safely. Begin to know that they need to talk to adults when worried about something they see online.	Know what to do if they see something inappropriate online. Begin to understand and adhere to schools E-safety policy and acceptable use policy.	Know what personal information is and why they need to keep it private. Use technology safely and respectfully	Recognise unacceptable behaviour online. Continue to use technology safely and respectively. Identify a range of ways to deal with inappropriate content.	Use technology safely, respectfully and responsibly. Know what it means to be a responsible digital citizen.	Use technology securely. Know how to protect your online identity. Understand how to use social media safely and responsibly.	Know why you need to use technology securely. Know why it is important to protect your online identity. Recognise correct content and conduct.