

Every Child a Leader - Every Chance taken - Every Day Counts

Subject: COMPUTING & E-safety



Intent	Implementation	Impact
<p>At James Elliman Academy we provide rich opportunities and experiences that actively promote lifelong skills to equip pupils to use computational thinking and creativity to understand change in the world. There by envisioning themselves in future careers in the digital world. We intend to explore our school Values through the teaching of Computing, for example, the children become creative learners through using a range of mediums to access a range of subjects.</p> <p><u>Knowledge</u> – In Computing, James Elliman ensures that children are typically taught foundational digital skills such as basic computer operations, internet safety and using common software applications. As they progress, they learn about programming concepts, digital literacy, data handling and problem solving skills. Our curriculum includes coding, understanding algorithms, cybersecurity and the ethical use of technology. Knowledge is deliberately sequenced and progressive. We give children regular opportunities to revisit and remember previous learning so that learning and understanding can be built upon. Our goal is to ensure that all students learn more and remember more. Parents are informed of content through workshops and information on the website.</p> <p><u>Inclusivity</u> - We give all our children every opportunity to achieve the highest standards by taking account of pupils’ varied life experiences and needs. The achievements, attitudes and well-being of all our children matter. JEA promotes the individuality of all our children, irrespective of ethnicity, attainment, age, disability, gender, or background- ensure access and progress for all. We focus on tolerance, diversity, and respect for each other. In COMPUTING, we adapt teaching methods and materials to accommodate diverse learning styles and abilities. Accessible learning resources using assistive technologies are provided to support each child.</p> <p><u>Enrichment</u> - We offer students a well-rounded education that goes beyond traditional academics and contributes to their personal development. In computing, this involves incorporating advanced and relevant topics to prepare the students for the evolving digital landscape. At JEA we have integrated practical hands on projects and real world applications into our curriculum to enhance students' problem solving abilities and creativity.</p> <p><u>Vocabulary</u> - Our pupils will develop a rich wealth of vocabulary related to technology, computers and digital communication. Such vocabulary will provide a foundation for understanding and working with technology in the context of the Computing curriculum.</p>	<p>We will deliver a high-quality, age-appropriate, broad, and balanced curriculum for all the pupils, aligned to the National Curriculum, using the specialised Junior Jam to deliver the course.</p> <p>Subject progression and year group curriculum maps will guide the development of medium-term plans. There will be a set order of units, under iMedia that will be followed.</p> <p>Autumn 1- iJam Autumn 2- iProgram Spring 1 – KS1 iAnimate / KS2 iOffice Spring 2 - iCreate Summer 1 - iCommunicate Summer 2 - iTech</p> <p>Children will be taught by specialist teachers who are experts in addressing the evolving digital world. The use of iPads in the classroom has revolutionised the way children are taught. iPads engage, motivate and inspire pupils’ learning, and at JEA we have developed, and continue to develop a range of courses that allow children to learn the Computing curriculum using iPads. As the world becomes increasingly rich with technology, our teaching experts from Junior Jam teach pupils to create programs, films, music and a range of other content, whilst encouraging them to express themselves and develop their own ideas using the latest apps.</p> <p>Programming experience is the best way for pupils to learn about computer science, therefore Junior Jam teaches pupils to create programs, systems and a range of content while encouraging them to express themselves and develop their own ideas. There will be an emphasis on how what is learnt can be used in a future working environment, as our world is becoming increasingly rich with technology. Clear lesson plans and resources will support this. Medium-term plans will outline cross curricular links, assessment and adapted provision to meet students’ individual needs. They will experience a variety of teaching and learning strategies which are used to encourage participation. This will allow challenge and support for students learning without limits.</p>	<p>The impact of the Computing curriculum will be measured in many different ways:</p> <p>Digital Literacy: computing education will equip children with essential digital literacy skills, enabling them to use computers, software, and the internet proficiently. This foundational knowledge is crucial in today’s digital world.</p> <p>Problem-Solving Skills: computing courses will involve programming and problem-solving exercises, enhancing children’s analytical and critical thinking abilities. Children at JEA will learn to approach challenges logically and develop solutions using technology.</p> <p>Creativity and Innovation: this curriculum will encourage creativity by allowing students to create digital content, explore multimedia tools, and engage in innovative projects. It fosters a creative mindset, essential for future technology-related endeavours.</p> <p>Collaboration and Communication: Children will learn to collaborate on digital platforms, fostering teamwork and communication skills. These skills are transferable to various aspects of their lives, including future workplaces.</p> <p>Increased Confidence: Mastering computing skills will boost children’s confidence in using technology, empowering them to explore and adapt to new digital tools and platforms effectively.</p> <p>Digital Citizenship: computing education will teach our children about responsible online behaviour, cybersecurity, digital ethics, and privacy. It instils a sense of responsibility, ensuring they use technology safely and ethically. Overall, children at JEA will be empowered with essential skills and knowledge, empowering them to navigate the digital world confidently and prepare for future opportunities.</p> <p>The biggest and most important impact with technology becoming integral to almost every industry is that computing education prepares our children for a wide range of careers in fields like software development, data analysis, cybersecurity, and digital marketing.</p>