Computing KS4 Long- term Plan

At Brookvale, the intent of the KS4 Computing curriculum is to equip pupils with the digital knowledge, technical skills and confidence required for further education, employment and independent adult life. Building on prior learning, pupils develop a deeper understanding of how technology is used in the modern world and how digital skills can support their future aspirations. The curriculum promotes confidence, curiosity, creativity, challenge and character, enabling pupils to become capable and responsible users of technology.

The curriculum is rooted in the National Curriculum and tailored to meet the needs of our learners. Through practical and engaging learning experiences, pupils develop their understanding of digital literacy, data handling, online communication, cyber security and emerging technologies. Online safety remains a central component, ensuring pupils can critically evaluate online content, manage risks and make informed decisions in an increasingly digital society.

Computing is applied across the curriculum to strengthen learning in authentic contexts. Pupils use digital tools to research, analyse data, solve problems, present information and manage projects. Learning is linked to real-world applications such as creating professional documents, managing personal finances, exploring career pathways, completing applications, understanding workplace technologies and developing the digital competencies expected by employers and further education providers.

By the end of KS4, pupils will be able to use technology confidently, safely and effectively in a range of academic, personal and professional contexts. They will have developed strong digital literacy, problem-solving and critical-thinking skills, preparing them for further study, employment and successful participation in a rapidly changing digital world.

Careers Education and Digital Skills Level 1:
Through the Digital Skills Level 1 qualification, pupils develop practical digital skills that support career planning, employability and progression. Pupils learn to create professional documents, manage digital information, communicate effectively online and use technology confidently in preparation for further education, training and employment.

Mathematics:
Pupils use spreadsheets and data-handling software to collect, analyse and present data, applying mathematical skills to real-world contexts such as budgeting, financial planning and workplace scenarios.

Science:
Pupils use digital technology to collect, record, analyse and present scientific data. They apply digital skills to research scientific developments, interpret results and communicate findings effectively.

Creative Arts:
Pupils use digital tools to create, edit and present artwork, music and multimedia projects, developing creativity, technical skills and digital confidence through technology.

PSHE and Careers:
Pupils develop digital literacy, online safety and professional online behaviours, learning how to use technology responsibly while researching careers, accessing support services and preparing for future opportunities.

English:
Pupils use word-processing, presentation and research tools to create CVs, personal statements, reports and presentations, developing written communication skills for further education and employment.

Pupils will be able to:

1. Apply safe, responsible and professional digital practices when using technology online.
2. Select and use appropriate digital tools to research, organise, evaluate and present information effectively.
3. Use spreadsheets and data analysis tools to interpret information, solve problems and support decision-making.
4. Create and edit a range of digital content, including professional documents, presentations and multimedia products.
5. Use digital skills confidently in real-world contexts, preparing for further education, employment and independent living.