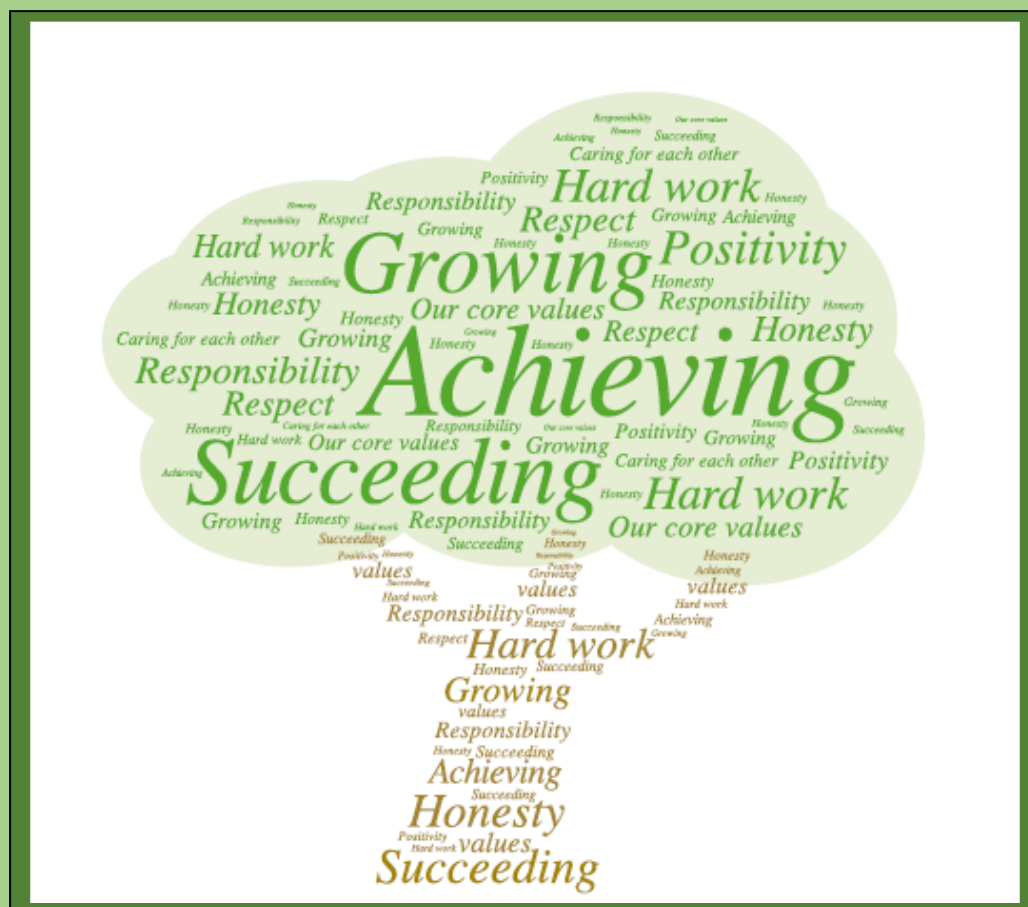


Park End Primary School



Approved By:

Date:

Computing Policy September 2021

Review Date	Type of Review	Comments	Initials
September 2021		Update to policy	SH
July 2025		Curriculum update to policy	PK
September 2026		Curriculum update to policy	PK

Intent

At Park End Primary School, we believe that Computing is an essential part of preparing our pupils for life in an ever-changing digital world. Our vision is for every child to become a confident, creative and responsible user of technology, with the knowledge, skills and understanding needed to succeed both now and in the future.

Our Computing curriculum, supported by the Kapow Primary scheme, provides pupils with a broad, balanced and progressive programme of learning that meets the expectations of the National Curriculum. Through engaging and purposeful learning experiences, pupils develop their understanding of how technology works, how it can be used to solve problems and how it can be used creatively to communicate, collaborate and express ideas.

The curriculum develops the three key strands of Computer Science, Information Technology and Digital Literacy. These are developed through five key areas: Computing systems and networks, Programming, Creating media, Data handling and Online safety. Pupils revisit these areas throughout their time at Park End Primary, allowing them to build on prior knowledge, develop increasingly sophisticated skills and apply their learning in new and meaningful contexts. This spiral approach supports pupils to develop both their knowledge of Computing and the practical skills required to use technology effectively.

Through Computer Science, pupils develop computational thinking and learn how digital systems work. They explore algorithms, programming, logical reasoning, decomposition and debugging, developing their ability to solve problems systematically and creatively.

Through Information Technology, pupils learn to select and use a range of digital tools and technologies purposefully. They develop skills in creating, editing, organising, presenting and evaluating digital content, including media and data, while making connections between Computing and learning across the wider curriculum.

Digital Literacy and Online Safety are embedded throughout our Computing curriculum. We want our pupils to understand both the opportunities and risks associated with technology and to develop the knowledge and resilience to make safe, respectful and responsible choices online. Pupils are taught how to protect their personal information, recognise inappropriate or unreliable content and behaviour, communicate responsibly and know where to seek help and support.

At Park End Primary, we aim for all pupils to:

- Become confident and digitally literate, able to use technology purposefully, creatively and effectively.
- Develop computational thinking and problem-solving skills, enabling them to understand problems, break them down and develop solutions.
- Understand how technology works, including computer systems, networks, algorithms, programming and data.

- Create, manipulate and evaluate digital content, using a range of software and digital tools for different purposes and audiences.
- Become safe, respectful and responsible digital citizens, understanding how to protect themselves and others when using technology and communicating online.
- Develop a rich and increasingly accurate Computing vocabulary, enabling them to explain their understanding, discuss ideas and articulate how digital technologies work.
- Develop curiosity, creativity and resilience, particularly when solving problems, debugging programs and learning new technologies.
- Recognise the importance and opportunities of technology in the wider world, developing the knowledge, skills and aspirations needed for future learning, employment and adult life.

Through our Computing curriculum, we want every pupil to leave Park End Primary with the confidence to use technology, understand technology and make responsible choices about technology. We aim to equip children not only with the skills to participate in an increasingly digital world, but with the computational knowledge, creativity, critical thinking and digital resilience to contribute positively to it.

Implementation

At Park End Primary, we teach the National Curriculum for Computing through the Kapow Primary Computing scheme. The curriculum has been selected and adapted to meet the needs of our pupils and provides a clear progression of knowledge and skills from EYFS through to Year 6. Learning is sequenced carefully so that pupils revisit, consolidate and build upon prior knowledge and skills.

Kapow provides engaging and purposeful learning experiences across the three key areas of the National Curriculum:

- Computer Science
- Information Technology
- Digital Literacy

These are developed through five key areas:

- Computing Systems and Networks
- Programming
- Creating Media
- Data Handling
- Online Safety

The curriculum follows a spiral approach, with key knowledge and skills revisited regularly. This allows pupils to make connections with previous learning and develop increasing confidence, independence and depth of understanding.

Planning and Progression

Teachers use Kapow's unit plans, progression documents and the school's Computing overview to ensure:

- Appropriate coverage, sequencing and progression across each year group.
- Pupils revisit and build upon knowledge and skills from previous units and years.
- Lessons are carefully sequenced to support retrieval, consolidation, application and progression.
- Computing vocabulary is explicitly taught and regularly used, with pupils encouraged to use appropriate terminology in their speaking and writing.
- Pupils develop computational thinking, problem-solving, creativity and resilience.
- Meaningful links are made with other curriculum areas where appropriate.
- Assessment and questioning identify misconceptions and gaps in learning so that pupils receive appropriate support and all pupils can keep up.

Online Safety

Online safety is embedded throughout our Computing curriculum. We use the Education for a Connected World framework alongside Kapow to ensure that pupils develop the knowledge and understanding needed to use technology safely, respectfully and responsibly.

Online safety objectives are taught through Computing, PSHE and RSE, as well as reinforced through assemblies, discussions and wider school opportunities. Pupils learn about online risks, privacy, personal information, digital footprints, appropriate online behaviour and how to seek help and support.

Teaching and Learning

We recognise that pupils need secure foundational knowledge before they can apply their learning independently and creatively. Teaching therefore includes explicit instruction, modelling, guided practice, questioning and opportunities to practise and consolidate new learning.

Teachers consider pupils' prior knowledge and working memory when introducing new concepts, breaking learning into manageable steps where appropriate. Regular retrieval and revisiting of knowledge support pupils in developing long-term understanding and fluency.

Curriculum Coverage

Computing is taught regularly throughout the year, with lesson time adapted according to the knowledge and skills being taught. The Computing overview

ensures appropriate coverage of the Kapow curriculum and National Curriculum objectives across the year.

Pupils also have opportunities to participate in visits, workshops and other enrichment activities where these complement and enhance the Computing curriculum and provide meaningful connections to their classroom learning.

Impact

At Park End Primary, the impact of our Computing curriculum is measured through pupils' knowledge, skills, understanding and confidence as they progress through the school. Our Kapow curriculum ensures that pupils build on prior learning, revisit key concepts and develop increasing independence and fluency.

By the end of each year group, pupils will have developed the knowledge and skills identified within the Computing progression and will be able to apply these in a range of contexts. They will demonstrate an increasing ability to use computational thinking, problem-solving, programming and logical reasoning, as well as use technology creatively and purposefully.

Pupils will be able to:

- Demonstrate secure and progressive Computing knowledge and recall key learning from previous units and year groups.
- Apply their knowledge and skills independently to solve problems, create digital content and complete purposeful tasks.
- Use appropriate Computing vocabulary accurately when explaining their ideas, processes and understanding.
- Understand how digital systems, networks, programming and data are used in the world around them.
- Use a range of digital technologies confidently, creatively and effectively.
- Demonstrate safe, respectful and responsible behaviour when using technology and communicating online.
- Recognise online risks and know how to respond appropriately and where to seek help.
- Show resilience when solving problems, debugging programs and responding to challenges.
- Make connections between Computing and learning across the wider curriculum.

Teachers assess pupils' learning through questioning, observation, discussion and practical tasks, using this information to identify misconceptions and gaps and to inform future teaching. Pupil work and outcomes are used to demonstrate progression in knowledge and skills over time.

Leaders monitor the impact of the Computing curriculum through lesson visits, discussions with pupils and staff, planning and work scrutiny, assessment information and curriculum reviews. This enables leaders to evaluate the quality of teaching, identify areas for development and ensure that the curriculum continues to meet the needs of all pupils.

The impact of our Computing curriculum is evident when pupils can recall what they have learned, explain their understanding, apply their knowledge and use technology safely and confidently.

Effective Teaching

All teaching staff are expected to:

- Use the Kapow Primary Computing scheme to deliver a sequence of progressive lessons which take into account pupils' prior learning.
- Use the correct Computing vocabulary and expect pupils to do the same.
- Give pupils access to a variety of high-quality hardware, software and unplugged resources.
- Use a mastery approach to the teaching of basic skills, knowledge and concepts so pupils are equipped with the skills they need to progress.
- Instil critical thinking, reflective learning and a 'can do' attitude in all pupils, particularly when engaging with technology and its associated resources.
- Differentiate work and set by ability in a limited, temporary and careful way so that there is a 'no limits to learning' approach.
- Engage pupils throughout Computing lessons by providing clear and concise explanations and expectations.
- Use technology effectively to support the teaching and learning of other subjects.
- Demonstrate secure subject and pedagogical knowledge in order to inspire pupils and build their understanding.
- Actively take part in Continuing Professional Development (CPD) sessions both within school and elsewhere.

Pupils' Learning

In order to enable pupils to achieve their full potential in Computing, the learning experiences offered should provide opportunities for pupils to:

- Become increasingly independent when using computer programs, digital technologies and equipment.

- Develop their understanding across the key areas of the Kapow Computing curriculum: Computing Systems and Networks, Programming, Creating Media, Data Handling and Online Safety.
- Develop a rich and varied Computing vocabulary and use appropriate terminology when discussing their learning.
- Use technology confidently and purposefully within the Computing curriculum, across the wider school curriculum and throughout their lives.
- Develop the skills, strategies and knowledge needed to benefit from the online world whilst minimising risks to themselves and others.
- Become responsible, respectful and competent users of data, information and communication technologies.
- Understand the importance of privacy, security, copyright and appropriate use of information and technology.
- Develop computational thinking, problem-solving, creativity and resilience through their Computing learning.

Learning Environment

At Park End Primary, we actively seek to promote a learning environment in Computing where pupils are:

- Actively engaged in Computing lessons.
- Showing confidence and a 'can do' attitude.
- Exposed to Computing vocabulary and effective questioning.
- Encouraged to ask and answer questions and discuss their work and ideas.
- Given opportunities to develop, practise and apply their Computing skills.
- Showing enjoyment and enthusiasm for Computing.
- Working collaboratively and participating in self, peer and group assessment in a positive way.
- Given opportunities to revisit and build upon prior learning through the progressive Kapow curriculum.

Use of Additional Adults

Additional adults may be used to support pupils in Computing lessons. This includes:

- Supporting pupils with accessing Computing equipment and resources.
- Modelling activities alongside the teacher.
- Teaching a group of pupils who require differentiated support.
- Supporting observational assessment.
- Supporting individuals to access the lesson and curriculum.
- Additional adults are not expected to sit listening to the input alongside the pupils or to be continuously monitoring and managing behaviour.
- Some additional adults are employed to work specifically with SEND pupils and their roles may vary accordingly to meet the needs of the pupils.

Resources

We have high-quality Computing resources to support the delivery of the Kapow Primary Computing curriculum. Classrooms have access to iPads or laptops, alongside a range of Computing equipment and resources assigned to specific year groups according to curriculum objectives.

Resources are selected to support pupils in developing their knowledge and skills across Computer Science, Information Technology and Digital Literacy, including programming, creating media, data handling, computing systems and networks, and online safety.

Equipment is maintained and replenished when needed and managed by the ONE IT service.

Monitoring

Subject coordinators and leaders in school, including governors, monitor the quality and impact of Computing provision in a variety of ways. These include:

- Scrutiny of curriculum books and Seesaw.
- Lesson observations.
- Pupil interviews and discussions.
- Learning walks.
- Curriculum monitoring and reviews.
- Deep dives.
- Review of planning and progression.
- Monitoring of pupils' knowledge, skills and vocabulary.

Monitoring ensures that the Kapow curriculum is being implemented effectively, that pupils are making progress and that the curriculum is meeting the needs of all pupils.

Equal Opportunities

At Park End Primary School, we are committed to providing all pupils with an equal entitlement to Computing activities, resources, trips, visits and opportunities, regardless of race, gender, culture, class or ability. We aim to ensure that all pupils, including those with SEND, have appropriate access to the Computing curriculum and the technology and resources required to support their learning.

See separate Equal Opportunities and SEND policies.

Health and Safety

Safe working practices are an integral part of all Computing activities. All staff take the necessary measures to ensure that both staff and pupils understand the importance of health and safety when using technology and electrical equipment.

Staff and pupils are taught to handle electrical and digital equipment correctly, including how to power equipment on and off safely. Pupils are reminded about the potential dangers associated with electricity and are taught to recognise appropriate warning and danger signs.

Online safety is an integral aspect of health and safety within Computing. Through the Kapow Computing curriculum and the Education for a Connected World framework, pupils are taught how to use technology safely, respectfully and responsibly and how to recognise and respond to potential risks when using technology and accessing the online world.