Newnham St Peter's C of E Primary School

Computing Curriculum

School Vision

Cherish Everyone ~ Flourish Together ~ Serve Others

Newnham St Peter's School Intent Statement

We aim to work in partnership with parents, governors, the Church and the community to provide a broad and balanced curriculum that enables all our children to develop into well rounded individuals and life-long learners. As a church school our curriculum is built upon a strong Christian foundation, with our core values of hope, perseverance, respect, friendship, forgiveness and thankfulness at the heart of all we do.

Curiosity underpins lifelong learning, from pre-school up our curriculum is based upon asking questions and exploring. Reading is the gateway to sustainable learning. We have a structured approach to reading to ensure childern develop skills that are applied across the curriculum. Vocabulary is a key focus and our curriculum is designed to ensure children develop both rich creative and subject specific vocabulary.

To ensure knowledge is retained and learning 'sticks', our curriculum is carefully mapped out across all phases, providing continuity, supporting transition and revisiting / building on key concepts.

Our curriculum takes inspiration from our Forest of Dean setting by the River Severn whilst also ensuring that pupils are outward looking with planned opportunities to gain experience of the wider world.

We aim for children to leave our school not only achieving their full academic potential, but with the skills to keep themselves physically, mentally and spiritually fit. The confidence to push themselves outside of their comfort zone and the moral compass and drive to be active global citizens.

Intent – What we want for the children

At Newnham St Peter's C of E Primary School, we recognise that computing is rapidly changing the world around us. We therefore, work hard to provide opportunities to inspire our children with a curiosity that will last for the rest of their lives. Our aim is to ensure that our children become digitally literate and are able to develop their vocabulary and ideas in a way that will enable them to **flourish** as digital citizens throughout primary school, secondary school and in their future workplaces to be able to **serve others** in their adult lives.

Our progressive Computing curriculum, which is taught from EYFS through to Year 6, is well-structured with clear progressions of knowledge, vocabulary and skills across all year groups. Our children have the opportunity to revisit prior knowledge and use this to build upon their understanding of a unit through a spiral curriculum. All units are supported by Knowledge Organisers that ensure the children's knowledge is underpinned by specific vocabulary.

It is our aim that the rest of the Primary curriculum weaves throughout the computing curriculum and enables children to develop knowledge and skills that are transferrable to other curriculum areas.

Please see the Computing Long Term Plan and Progression Maps for more information.

Implementation – How it will be delivered

The Computing Curriculum is taught throughout all year groups at Newnham St. Peter's using the Kapow Primary's Computing scheme as a basis. The implementation of the Kapow Primary Computing Scheme ensure a broad and balanced covered of the National Curriculum. Where meaningful, units have been created to link to other subjects such as science, art, and music to enable the development of further transferable skills and genuine cross-curricular learning.

This scheme provides our teachers with lesson plans that are structured and differentiated whilst allowing opportunities for CPD to support and help maintain subject knowledge. The children are provided with a knowledge organiser at the start of each new unit to enable all pupils to refer back to key vocabulary when needed. They also give children an insight towards what each unit will entail. These Knowledge Organisers can be found on display in the classrooms and in the Computing Big Book.

Each class has a Computing Big Book. Evidence and outcomes of the Computing curriculum are added to these books. These Big Books can be moved up with the children as they move through the school to remind them of prior learning and vocabulary through our spiral curriculum.

EYFS

In the EYFS, Computing is covered through the following areas of learning:

- Personal, Social and Emotional Development
- Physical Development
- Understanding the World
- Expressive Arts and Design

• Explore how things work.
• Show resilience and perseverance in the face of a challenge. • Know and talk about the different factors that support their overall health and wellbeing: -sensible amounts of 'screen time'.
• Develop their small motor skills so that they can use a range of tools competently, safely and confidently.
• Explore, use and refine a variety of artistic effects to express their ideas and feelings.
• Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. • Explain the reasons for rules, know right from wrong and try to behave accordingly.
• Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.

Key Stage 1 and Key Stage 2

In Key Stage 1 and 2 at Newnham St Peter's, our yearly changing cohort's needs are put first, our teachers have the choice to either teach the curriculum weekly or to termly block the subject. Our teachers follow the long-term plan to ensure the pupils are exposed to and progress through a wide range of skills. Our children will progress though the following key areas:

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

To ensure the progression of these skills, our children are challenged at an appropriate depth according to the year group expectations to ensure attainment targets are securely met by the end of each Key Stage.

Impact- What we want the outcomes to be

Our children will:

- Be critical thinkers and able to understand how to make informed and appropriate digital choices in the future.
- Understand the importance that computing will have going forward in both their educational and working life and in their social and personal futures.
- Understand how to balance time spent on technology and time spent away from it in a healthy and appropriate manner.
- Understand that technology helps to showcase their ideas and creativity. They will know that different types of software and hardware can help them achieve a broad variety of artistic and practical aims.
- Show a clear progression of technical skills across all areas of the National curriculum - computer science, information technology and digital literacy.
- Be able to use technology both individually and as part of a collaborative team.
- Be aware of online safety issues and protocols and be able to deal with any problems in a responsible and appropriate manner.
- Have an awareness of developments in technology and have an idea of how current technologies work and relate to one another.
- Meet the end of key stage expectations outlined in the National curriculum for Computing.