Computing Policy

Newlands Junior School
We are Proud

September 2025

Intent, implementation and impact

1. Intent

At Newlands, we want our pupils to be creators not just consumers of technology. Technology is everywhere and will play a pivotal part in students' lives, thus we want to model and educate our pupils on how to use technology positively, responsibly and safely. We want our pupils to be creators, publishers not only consumers and our broad curriculum encompassing computer science, information technology and digital literacy reflects this. We want our pupils to understand that there is always a choice with using technology and as a school we utilise technology (including the use of social media) to model positive use.

We recognise that the best prevention for many of the issues we currently see with technology/social media is through education. We recognise that technology can allow pupils to share their learning in creative ways. We also understand the accessibility opportunities technology can provide for our pupils. Our knowledge rich curriculum has to be balanced with the opportunity for pupils to apply their knowledge creatively, which will in turn help our pupils become skilful computer scientists. We encourage staff to try and embed computing across the whole curriculum, linking computing skills and apply these into their topics; making learning creative and accessible. We want our pupils to be fluent with a range of tools to best express their understanding and hope by Upper Key Stage 2, children have the independence and confidence to choose the best tool to fulfil the task and challenge set by teachers.

2. Implementation

We have a comprehensive progression of skills in computing document (see appendices) for staff to follow to best embed and cover every element of the computing national curriculum. The knowledge/skills statements build year on year to deepen and challenge our learners. Staff also use a range of planning and resourcing tools to teach the computing curriculum and to transfer these skills into topic work across the curriculum.

Information technology	Computer science and technology in our lives	Digital literacy
Word processing and typing	Computational thinking	Self-image and identity
Data handling	Programming	Online relationships
Presentation, web design, e-book	Computer networks	Online reputation
Animation		Online bullying
Video creation		Managing online information
Digital art and photography		Health, well-being and lifestyle
Sound		Privacy and security
		Copyright and ownership

3. Impact

We encourage our children to enjoy and value the curriculum we deliver. We want learners to discuss, reflect and appreciate the impact computing has on their learning, development and well-being. Finding the right balance with technology is key to an effective education and a healthy life-style. We feel the way we implement computing helps children realise the need for the right balance and one they can continue to build on in their next stage of education and beyond. We encourage regular discussions between staff and pupils to best embed and understand this.

The way that our pupils share, collaborate, choose to present and publish their work will best show the impact of our curriculum. We also look for evidence through reviewing pupil's knowledge and skills digitally through tools like Seesaw and many post-teaching tasks such as quizzes and vocabulary matches as well as observing learning regularly.

Progress of our computing curriculum is demonstrated through outcomes and the record of coverage in the process of achieving these outcomes. A variety of evidence for these outcomes can be seen published in children's topic books, on big sheets, photographs, on the school website and on seesaw.

Curriculum Planning

3.1 Computing is a subject that is used to full advantage in a topic-based curriculum. As the starting point for our Computing planning, we use the new National Curriculum. This enables us as a school to provide a broad and balanced Computing curriculum by ensuring comprehensive coverage of WHAT we have to teach and WHY. Staff use the National Curriculum in conjunction with our comprehensive skills progression document and knowledge and vocabulary document to teach both specific skills lessons and embed IT skills through their topic work. This will provide children with opportunities to apply taught IT/ computing skills across the curriculum. Staff use a range of planning tools and resources from Purple Mash (specific computing topic knowledge organisers), barefoot computing and National Online Safety resource centre.

ICT skills

As per the Teacher Standards, there is an expectation that staff can use ICT to support their teaching and learning responsibilities. This may include, but not be limited to:

- Using laptops and iPads safely and responsibly.
- Using interactive smart screens
- Use the school email and diary system

Any issues regarding the use of ICT equipment should be raised with the member of staff's line manager so that appropriate CPD can be put in place.

Contribution of ICT to other subjects

As part of a skills based curriculum, Computing is able to contribute hugely to many other areas of the curriculum.

English

Computing is a major contributor to the teaching and learning of English. Through the development of keyboard skills and the use of computers, children learn how to save, review, edit and revise

their work. They have the means to communicate through E mail / Blogs with others and have the chance to converse and share information with other children over the Internet. They use digital cameras and video recording features in order to further Literacy work and enhance written outcomes. The use of the Internet and programs allow children to extend their understanding of a topic and thus allowing more detail in Non Fiction writing. All children have a log in for 'Purple Mash – Serial Mash' where they can access a bank of differentiated e-books with linked comprehension, writing and grammar tasks to test their understanding.

Mathematics

Children use Computing to build upon mathematical skills, for example, data collection, branching databases, making predictions and analysing results. The use of ICT creates a visual model to aid the teaching of mathematics and allow children to use ICT based skills. All children have logins for TT Rockstars, Purple Mash and Prodigy Maths.

Science

We provide links between science and Computing in a variety of ways through the creative curriculum. Children use Ipads to record evidence through photographs and videos when conducting scientific enquiries. They are then able to show the structure of their scientific enquiry through making a scientific video diary using a computer program.

They discover how the Internet can help with research into areas of science and they see models and images on screen**, which** aid learning e.g. life cycles. The use of data handling programs allows children the opportunity to handle large amounts of data and manipulate it in order to answer questions about investigations in science. Children can set up and manipulate branching databases using a specific program on the computer and answer complex questions from it.

Foundation Subjects

Computing skills are utilised and consolidated in many areas of the curriculum. The use of the Internet for topic research is vital for children to have an understanding of the greater world and the way others live. Word processing programs are used in these areas and data handling programs used to collect information and manipulate it. LCD Screens enhance visual models and allow children an alternative method of understanding topics being covered. The use of ipads allows children to be creative within these areas to record and use images they have seen.

Inclusion/SEN/Equal opportunities

At Newlands Junior School we are committed to encouraging children to fulfil their full potential whatever their needs, ability, race, gender or socio-economic factors. We provide a broad and balanced curriculum and offer learning opportunities that are matched to the needs of all children. Children with Special Educational Needs are specifically planned for when teachers plan Computing and the actual use of ICT equipment may be utilised in Individual Support Plans. If appropriate, children with SEN may be provided with an individual computer/specialised keyboard / ipad and mobility mouse to aid learning and/or specific software programs to enable learning.

Assessment and recording

Teachers assess children's work throughout lessons on an informal level, observing progress and attainment closely. Children save work in their own folder located on the C drive of the school's

server. An example of group work in computing will be saved in topic folders or topic books and teachers will also evidence learning in scrapbooks. Children may add to their individual e-portfolios or a class e-portfolio. Computing learning and cross curricular learning applying IT skills may be evidenced on children's seesaw learning journeys. Teachers will assess children against the ARE for Computing to inform future planning, taking into consideration the skills children have achieved and whether they are below, at or above the expectation.

Resources

Each classroom has an Interactive LCD Screen linked to a teacher's laptop. All staff also have an iPad to support learning, evidence and assessment in school. There are 30 wireless laptops and a set of 30 apple Ipads. All computers in school have access to the Internet and have Anti Virus software. Newlands Junior also subscribes to some websites/services to support the teaching and learning of many subjects in school. These include: Purple Mash, Twinkl, Classroom Secrets, TT Rockstars and spag.com.

Health and safety

Safety when using ICT equipment is paramount at Newlands Junior School; we understand the benefits of the Internet but also have a clear understanding of the dangers faced if stringent safety rules are not adhered

All children and adults within are required to follow the 'SMART' rules and the school's acceptable use terms of agreement, which are signed at the beginning of each academic year by the pupil and carer. Children are reminded frequently how to handle portable equipment such as digital cameras and laptops, with care and consideration. All children and adults are reminded of the rules and responsibilities for Internet use 'Pupil Acceptable Use Policy' and 'Staff, Governor & Visitor Acceptable Use Agreement'.

If unsuitable material is displayed, leave the problem machine on/tilt screen down and turn away from children/log problem with the ICT Leader. Speak to parent of child/label problem machine clearly out of use. Any adult who witnesses unsuitable material on a laptop within school will report to Head Teacher and ICT leader so that it can be recorded - the number/time/date of incident and who was logged on at the time, also recording any messages and Internet sites they were logged onto so that the issue can be reported to the technical team.

Monitoring and review of policy

It is the responsibility of the ICT leader to monitor the overall standards of children's work and teaching of ICT and Computing at Newlands Junior School. This is carried out in order to improve standards and teaching.

Adaptive Teaching

Computing forms part of the National Curriculum to provide a broad and balanced education for all children. Through the teaching of Computing, we provide opportunities that enable all pupils to make strong progress. We do this by setting suitable challenges and responding to each child's individual needs as well as choosing activities to suit the pedagogy of each year group. Where appropriate, IT can be used to support SEN children on a one-to-one basis where children receive additional support.