



COMPUTING POLICY 2026-2027

Computing Subject Leader: Miss J Scarfe

"The computer was born to solve problems that did not exist before."
- Bill Gates.

Curriculum Intent Statement

At Owston Park Primary Academy, our intent is to provide a knowledge-rich curriculum that increases the depth and breadth of what pupils know, enabling them to develop cultural capital and a lifelong love of learning. We want our children to leave us not only with strong academic foundations, but also with dignity, happiness, emotional literacy and a deep connection to their community.

Our curriculum is built around our core values of kindness, curiosity, aspiration, integrity and community. We nurture kindness in the way pupils learn and support one another; we promote curiosity through exciting opportunities to question, explore and make connections; we foster aspiration by setting high expectations and opening doors to new possibilities; we model integrity by encouraging pupils to do what is right and to value honesty; and we strengthen community by celebrating our locality and ensuring every child feels a sense of belonging and responsibility.

We believe education is a powerful tool for addressing social injustice. By giving pupils access to the best that has been thought, said and done, and showing how this connects to their own lives in North Doncaster, we empower them with the knowledge and confidence to thrive as educated citizens.

Our aim is for every child to be confident, enthusiastic and curious — equipped with the knowledge, vocabulary and skills they need to make sense of the world and to lead purposeful, fulfilling lives.

Curriculum Themes at Owston Park Primary Academy

Knowledge Centric  The basis of our curriculum is powerful knowledge - by teaching 'the best that has been thought, said and done', we open up our children's minds, ignite their curiosity and engender an appreciation of human creativity and achievement. Key knowledge for each subject has been carefully considered by subject leaders alongside class teachers, and is codified in our bespoke Knowledge Organisers.	Evidence Based  Our cumulative approach is rooted in neuroscience and educational research. We use regular retrieval practise to help to commit key knowledge to children's long term memory. 'Memory is the residue of thought' - the more we think about something, the more likely we are to remember it. Our assessment reflects this, measuring the knowledge which children retain, so we can be confident that they've truly learnt it.	Cumulative and Coherently Sequenced  Children learn explicitly planned interconnected webs of carefully sequenced and discretely taught conceptual knowledge, which are revisited in subsequent contexts enabling children to build up networks of connected information as schema. Discretely teaching conceptual knowledge means it becomes easier for children to add new information to existing schema, as new knowledge 'sticks' to prior knowledge.	Depth for All  All children receive quality first teaching. Content is not differentiated, so no knowledge is out of bounds for any child, because every student has an entitlement to access powerful knowledge which opens the door to a world beyond our own individual experiences. New information is introduced in small steps, with lots of modelling and scaffolding, enabling children to build confidence. The culture at Owston Park celebrates mistakes and uses them as a teaching point.
Vocabulary Rich  Vocabulary is explicitly planned for and taught within each unit. Vocabulary is the key to unlocking and understanding the knowledge. Discussion and structured learning conversations are a key feature of wider curriculum lessons.	Enrichment  Our topics provide the opportunity to bridge our children's cultural capital deficit through enrichment - educational visits, visitors into school and immersive experiences. The substance of the knowledge taught inspires awe and wonder.	Community and Identity  Our curriculum is built on meaningful local links to encourage our children to celebrate our rich heritage. Parents are invited in regularly to celebrate children's learning.	Core Skills Developed  Topics are underpinned by texts which draws upon and builds schema to help contextualise the key knowledge which children have learnt. Opportunities for extended writing are built into the curriculum. There are high expectations of core skills across the curriculum.

Computing Intent, Implementation and Impact

Intent	Implementation	Impact
To equip young people with the declarative and procedural knowledge and understanding they need to thrive in the digital world of today and the future.	- To provide our pupils with lessons that solely focus on the key declarative and procedural knowledge of the computing curriculum, including relevant vocabulary e.g. a lesson on debugging, using different fonts in word. - As our pupils' progress to upper key stage 2, use the skills and knowledge gained to complete a project based on, either, their current topic or an experience such as Y6 prom. This is to ensure that the children get the chance to use the skills gained in a real life and relevant context. - To ensure our pupils get exposure to what computing looks like in the real world and how it is used in the workforce in Britain today. - To ensure they are prepared for secondary school and life beyond school e.g. employment through experiences like careers week. - Key skills taught early on in their school career e.g. logging on, mouse control. - To provide pupils with the opportunity to develop their computational thinking skills.	- Children will have the relevant declarative and procedural knowledge for secondary school and life beyond school. - Children can use computing skills in a range of contexts. - Children can use and understand computing vocabulary. - Children will be able to think computationally and problem solve.
To develop coherent knowledge and understanding of computer science and information technology to ensure our pupils are digitally literate.	- To ensure coverage of both key concepts each year group spends a term on each one with aspects of digital literacy built into information technology, as well as an additional topic building on either computer science or information technology. E-safety is taught through Common Sense Education. - Our bespoke 2-year curriculum design has been carefully developed to ensure complete understanding. The first year of the key stage focusses more on teaching and gaining the declarative and procedural knowledge and then a year consolidating and practising what has been taught. - A 2-year cycle ensure complete understanding before moving onto the next skill e.g. teach algorithms in KS1 to ensure they can decompose them in Y4. - Use of the scheme Espresso Coding and project-based learning in the spring term.	- Children will enjoy learning about computing and be excited about the subject content. - Children will reach age related expectations in computing. - Children will retain relevant declarative and procedural knowledge. - Children can use and understand computing vocabulary. - Children will be able to think computationally and problem solve.

	- Vocabulary is explicitly taught in each lesson and built on throughout school. - A clearly structured wider curriculum lesson plan. - Use of unplugged lessons to teach key concepts and knowledge for coding and programming. - To provide pupils with the opportunity to develop their computational thinking skills.	
To prepare children to be safe and secure online and know what to do if they are unsure of something online.	- The programme we use at Owston Park is Common Sense Education; which has been carefully checked against the Teaching Online Safety in Schools document to ensure coverage. - Lessons are taught from Year 1 to Year 6. - Common Sense Education provides our pupils with an incremental programme of E-safety lessons, covering a range of situations which the children may encounter online. - The lessons are age appropriate. - The programme is fun and interactive, and the children get to use their knowledge to complete child friendly tasks. - Further importance put on E-safety through days such as Safer Internet Day.	- Children have the knowledge to stay safe online in a range of contexts. - Understand where to go if they are unsure about something online. - Know what behaviour is appropriate and inappropriate online. - Children know how to keep their information secure online.
Develop Core skills	- The information technology aspect of the computing curriculum provides opportunities for children to develop core skills - children are encouraged to use maths skills in creating and interpreting graphs, charts, diagrams and spreadsheets. In English the children are given opportunities to develop their writing by developing and using their skills in a range of software such as Microsoft Word, Publisher and Power Point. - Reading is developed through using computing in a cross-curricular manner e.g. researching a topic in History or Geography. - Computing can also provide additional opportunities for development of core skills through its use in project-based work.	- Children's unplugged computing work reflects the same high expectations of core subject work. - Children are proud of their work - this is reflected in their presentation and the quality of the written work in unplugged lessons. - Further development to core skills.
To enable all children to receive the same quality of computing education, ensuring that children are supported where support is necessary,	In computing, this looks like: - A clearly designed computing curriculum to match the cultural capital of the local school community. - All pupils getting regular access to a range of devices in a range of contexts.	- A large proportion of children reach age related expectations in computing. - SEN children and children working towards year group

and that all children are challenged and stretched within their learning.	• All pupils being taught, exposed and expected to use the correct computing vocabulary. • Common tasks which are open-ended and can have a variety of responses. • Setting tasks of increasing difficulty. Not all children complete all tasks, and additional resources are available to scaffold children's learning e.g. instructional videos, discussions etc. • Using classroom assistants to support children individually or in groups. • Children may be taught in small groups for intervention, and vocabulary or key-information from knowledge organisers may be pre-taught to specific children for a keep up, not catch-up approach. • Collaborative, group and paired work, which necessitates discussion and practicing of key skills is used, regularly, wherever possible. • A computing ambassadors' program, where children who show a particular aptitude for computing (not necessarily the AD children or boys) are given the chance to stretch their skills further. • A 2-year cycle to ensure lots of opportunities for depth.	expectations feel supported and enjoy computing lessons. • Assessment monitoring ensures children are targeted for intervention when not on track. • Enrichment opportunities are subsidised for pupil premium and disadvantaged children. • Children have access to a range of different devices and software.
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THE FOUNDATION STAGE

Even though there isn't an explicit computing statement within the new Development Matters; computing and technology is still an important part of the EYFS Curriculum at Owston Park. Children learn about everyday technology and computing through exploration and play. The children explore everyday technology, in their play, to develop their understanding of how something works and its purpose in the world today.

TIME ALLOCATION

To ensure our curriculum is broad and balanced, we teach every subject each term. We understand that time constraints may mean that lessons do not achieve an equal time allocation on a weekly basis, but on a termly basis Computing should be taught as often as other wider curriculum subjects, and from September 2022 this will be on a fortnightly basis for a 2-hour lesson. This means on average Computing is being taught an hour a week over the course of the year. Computing can also be taught through 'unplugged' activities, where a device isn't needed but key computing skills and knowledge can still be developed. E-safety is taught through Common Sense Education. Learning within computing is also reinforced through key dates during the year such as Safer Internet Day as well as our aspirations and careers week. During this time our pupils can focus on careers within computing and research and foster a love of the subject and give them aspirations for the future.

PLANNING AND ASSESSMENT

The planning process at Owston Park Primary begins with the national curriculum and our curriculum drivers, to ensure that the topics we teach include the powerful knowledge - the best that has been thought, said and done - and are enhanced by our locality and our own unique heritage. From these, subject leaders alongside class teachers have worked together to develop knowledge organisers, which ensure that the key, powerful knowledge is being taught rather than just 'doing' a subject. The knowledge organisers are then considered alongside the skills progressions and conceptual knowledge maps to create a series of coherently sequenced lessons to map out the learning journey for each topic. For Computing, the subject leader has created enquiry questions to focus the learning and ensure that the children are developing a good understanding of the past skills rather than just rote learning facts. Formative assessment is an integral and continuous part of the teaching and learning process at Owston Park Primary and much of it is done informally as part of each teacher's day to day work. Teachers integrate the use of formative assessment strategies such as effective questioning, clear learning objectives, the use of success criteria, effective feedback and response in their teaching and marking and observing children participating in activities. Planning may be annotated and those who need more support can be identified on plans through use of A.F.L. Findings from these types of assessment are used to inform future planning. Teacher assessment in Computing gives an accurate overall understanding of children's learning and coloured learning objectives relating to the outcome of each individual lesson give a snapshot of understanding on a lesson-by-lesson basis. Teachers analyse trends and any common recurrences will inform future planning. Teachers report attainment in Computing to the subject leader who monitors trends.

MARKING & FEEDBACK

- Marking should *always* be focussed on the Learning Challenge.
- Children are given opportunities to self-assess their learning against the Learning Challenge where possible, using the metacognition colours familiar to them.
- Feedback should perform 3 purposes; ensure children understand what they have done well; ensure children are clear about how to improve; ensure children make visible signs of improvement.
- Marking should always 'close the gap' and give an improvement suggestion; of which there are 4 types:
 - o a challenge prompt;
 - o a reminder prompt;
 - o a scaffold prompt e.g. a question or unfinished question, steps to complete tasks;
 - o an example prompt.
- Children to have opportunities to self and peer assess their work, when appropriate. This should be recorded and monitored.
- When the arrow icon is shown it indicates what the next step for the child will be or action to complete, either as a consolidation activity or an opportunity to extend learning.
- Wherever possible, the checking or marking of work will be done with the child who will be given the opportunity to ask questions and self-correct.

INCLUSION

Our curriculum is planned so that all pupils can take part, enjoy learning and achieve their best, whatever their starting points or needs. We use adaptive teaching to support children with different abilities, interests and needs, making sure that everyone feels included and able to succeed. We celebrate diversity and encourage pupils to respect and learn from each other's differences. By removing barriers and providing the right support, we ensure every child has the opportunity to thrive and develop a love of learning.

DIVERSITY

At Owston Park, we ensure that our computing curriculum reflects the diversity of our pupils and the wider world. Computing is a global discipline that has been shaped by people from a wide range of cultures, backgrounds and experiences, and it is vital that children recognise the inclusive and collaborative nature of the digital world.

We promote diversity in computing by:

- Showcasing contributions from diverse computer scientists, innovators and pioneers from across the world.
- Using contexts, projects and examples that reflect the varied experiences and interests of all pupils.
- Challenging stereotypes around gender, race and ability in relation to computing and technology.
- Encouraging all pupils to see themselves as creators, problem-solvers and potential future innovators in the digital field.
- Highlighting how technology can be used to connect communities, promote equality and solve global challenges.

By embedding diversity into computing, we aim to raise aspirations, break down barriers, and ensure that every child feels empowered to engage with technology. This supports our school's wider vision of preparing children to be confident, responsible and inclusive digital citizens.

MONITORING AND SUBJECT LEADERSHIP RESPONSIBILITIES

The subject leader's role is to empower colleagues to teach wider curriculum lessons to a high standard and support wider curriculum subject leaders in the following ways. Their role includes leading, managing, monitoring, motivating, training and guiding colleagues.

- Knowing the curriculum requirements of their subject throughout school and using their knowledge of their subject to create road maps of the learning journey and assist teachers in developing knowledge organisers, ensuring that the content maintains fidelity with the National Curriculum.
- Subject leaders monitor medium term plans and work alongside class teachers to ensure that pupils receive full coverage of the National Curriculum.
- Showcasing and raising the profile of their subject throughout school, e.g. through thematic days, displays etc.

- Monitoring their subject through book scrutinises, lesson observations, assessment analysis and pupil interviews to ensure comprehensive monitoring of wider curriculum subjects and to inform them of the quality of the wider curriculum provision across the school.
- Keeping up to date on current issues; disseminating relevant information and providing training for staff members (either directly or through other professionals).
- Identifying and acting on subject specific development needs of staff members with support from SLT - books are scrutinised by SLT throughout the term with a compliance check completed half termly and feedback is provided.
- Monitoring expectations, provision and attainment across the school and providing feedback to develop practice further in order to raise standards.
- Providing necessary equipment and maintaining it to a high standard, managing the subject budget effectively.

WIDER CURRICULUM NON-NEGOTIABLES

- Immersive experiences to be exciting, awe-inspiring events to engage and excite children. The classroom environment should reflect the topic. Key vocabulary should be displayed within the classroom, as should resources which support key knowledge e.g. timelines, diagrams.
- Learning objectives and titles to be present in children's books/folders. The title should contain a context. The learning challenge should be highlighted in the corresponding colour according to the metacognitive level achieved.
- Vocabulary should be explicitly taught within the lesson.
- Presentation expectations in wider curriculum lessons to mirror expectations in core subjects.