

Intent:

At our school we intend that children should master Computing to such an extent that they can go on to have careers within Computing and make use of Computing effectively in their everyday lives, without being completely reliant on technology. Our children will be taught to use technology responsibly and carefully, being mindful of how their behaviour, words and actions can affect others. Our children will be taught Computing in a way that ensures progression of skills, and follows a sequence to build on previous learning. Our children will gain experience and skills of a wide range of technology in a way that will enhance their learning opportunities, enabling them to use technology across a range of subjects to be creative and solve problems, ensuring they make progress.

Implementation:

We follow a broad and balanced Computing curriculum that builds on previous learning and provides both support and challenge for learners. We follow the Teach Computing scheme that ensures a progression of skills and covers all aspects of the Computing curriculum. All classes will have a scheduled Computing lesson each week. Children's work will be stored mainly on Google Classroom (but also in computing folders for any paper based activities or until our Google Classroom rollout is complete) for reference and assessment.

We want to ensure that Computing is embedded in our whole school curriculum and that opportunities for enhancing learning by using technology are always taken.

Impact:

Our children enjoy and value Computing and know why they are doing things, not just how. Children will understand and appreciate the value of Computing in the context of their personal wellbeing and the technological, creative and cultural industries and their many career

opportunities. Progress in Computing is demonstrated through regularly reviewing and scrutinising children's work, in accordance with our Computing assessment policy to ensure that progression of skills is taking place. Namely through:

- Looking at pupils' work, especially over time as they gain skills and knowledge
- Observing how they perform in lessons
- Talking to them about what they know.

The Computing curriculum will contribute to children's personal development in creativity, independence, judgement and self-reflection. This would be seen in them being able to talk confidently about their work, and sharing their work with others. Progress will be shown through outcomes and through the important record of the process leading to them.

Key Skills: EYFS

It is important in the foundation stage to give children a broad, play-based experience of IT and computing in a range of contexts, including off-computer activities and outdoor play.

Computing is not just about computers. Early years learning environments should feature IT scenarios based on experience in the real world, such as in role play.

Children gain confidence, control and language skills through opportunities such as 'programming' each other using directional language to find toys/objects, creating artwork using digital drawing tools and controlling programmable toys.

Outdoor exploration is an important aspect and using digital recording devices such as video recorders, cameras and microphones can support children in developing communication skills.

This is particularly beneficial for children who have English as an additional language.



New Brighton Primary School Computing Curriculum 2023-2024



Key Skills: YR1 and YR2

National Curriculum Coverage — Years 1 and 2	1.1 Technology around us	1.2 Digital painting	1.3 Moving a robot	1.4 Grouping data	1.5 Digital writing	1.6 Programming animations	2.1 Information technology around us	2.2 Digital photography	2.3 Robot algorithms	2.4 Pictograms	2.5 Digital music	2.6 Programming quizzes
Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions			1			/			1			1
Create and debug simple programs			1			1			1			1
Use logical reasoning to predict the behaviour of simple programs			1			1			1			1
Use technology purposefully to create, organise, store, manipulate, and retrieve digital content	1	1		1	1		1	1		1	1	1
Recognise common uses of information technology beyond school	1		1				1	/				
Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies	1			1	1		1	/	1	/		

Key Skills: YR3 and YR4

National curriculum coverage - Years 3 and 4	3.1 Connecting computers	3.2 Stop-frame animation	3.3 Sequencing sounds	3.4 Branching databases	3.5 Desktop publishing	3.6 Events and actions in programs	4.1 The internet	4.2 Audio production	4.3 Repetition in shapes	4.4 Datalogging	4.5 Photo editing	4.6 Repetition in games
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts			1			1			1			1
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output	1		1			1			1	1		V
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs			1			1			1			V
Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration	1						1					
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content					1		1	1			1	
Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	1	1	/	1	1	1	1	1	1	1	1	V
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact		1		1			1	1			1	



New Brighton Primary School Computing Curriculum 2023-2024



Key Skills: YR5 and YR6

National curriculum coverage - Years 5 and 6	5.1 Systems and searching	5.2 Video production	5.3 Selection in physical computing	5.4 Flat-file databases	5.5 Introduction to vector graphics	5.6 Selection in quizzes	6.1 Communication and collaboration	6.2 Webpage creation	6.3 Variables ingames	6.4 Introduction to spreadsheets	6.5 3D modelling	6.6 Sensingmovementz
Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts			1			/	1		1			1
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output			1			1			1			1
Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs			1			/			1			1
Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration	1						1					
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content		/		1				1				
Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	1	1	1	/	1	/	1	/	1	1	/	1
Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	/	1						1	1		1	