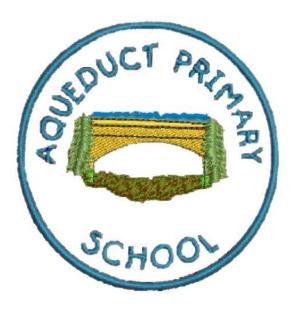
Aqueduct Primary School

Computing Policy



2022

Adopted by stall and Governors February 2022

Our Strapline

Building tomorrow, leading the way ...

Our Values

Positivity, happiness, learning, kindness, safety and respect.

- To help all children develop the skills and capabilities which is essential to developing Computer capability.
- · Help all children to evaluate the benefits and risks of technology and how to manage their use of it safely and respectfully.
- · Are responsible, competent, confident, and creative users in Computing
- · Celebrate success in the use of technology.

The use of technology is an integral part of our curriculum and provides pupils with the technological and communication skills they will need to live in our modern world. At Aqueduct Primary School we use computing skills across all curriculum areas. This involves using the internet to look at sources of information. This is done in as safe a way as possible, using search engines, such as Kiddle and Kidrex, that are appropriate for children and under adult supervision. A large part of our Computing curriculum is Digital Literacy where we focus on E-safety to ensure our children are able to use the internet confidently and safety.

Our Computing policy recognises the value of using technology to enhance the curriculum but also realise that pupils need to have a sound awareness of how to keep safe. Computing has deep links with mathematics, science, design and technology and history, where Computing can be used for coding, creating timelines or creating data graphics for a science experiment.

Vision

"Building tomorrow, leading the way." (Whole School Vision Statement) To develop lifelong transferable skills through promoting curiosity, confidence, and creativity whilst inspiring challenge. Equal Opportunities

The Computing curriculum is planned, organised, and taught in ways which are compatible with the school's Equality policy. • All learners are of equal value

- We recognise and respect difference
- · We foster positive attitudes and relationships and a shared sense of cobesion and belonging
- · We aim to reduce and remove inequalities and barriers that already exist
- · We address prejudice and prejudice related bullying

To accommodate for equal opportunities, specialist computing equipment has been purchased to support the needs of all pupils within our school.

British Values

The children at Aqueduct Primary School also demonstrate the key British Values whilst accessing the Computing Scheme of Work. These values are:

Democracy

- · Listening to everyone's ideas in order to form a majority.
- · Working as part of a team and collaborating to use computing devices effectively.

Rule of Law

- · Developing knowledge of lawful computing behaviours.
- · Demonstrating respect for computing laws.

Individual Liberty

- · Taking responsibility for our own computing behaviours.
- · Exercising rights and personal freedoms safely through knowledge of E-safety.

Respect and Tolerance

- · Showing respect for other cultures when undertaking research using computing devices.
- · Providing opportunities for pupils of all backgrounds to achieve in computing.

Computing at Aqueduct Primary School

At Aqueduct Primary School our Computing curriculum follows the Purple Mash Scheme, which allows the school to provide creative curriculum focused activities using games and creative tools to support and inspire the children.

Foundation Stage

The Foundation Stage pupils investigate technology as part of Understanding of the World. Through exploratory play, children use technological toys and learn that they can make them work by pressing buttons and clicking on icons e.g., Bee Bots, torches, 1-pads, computers, IWB, microphones, remote control vehicles, microwave and toaster. They are taught how to complete simple programs which they use to support their phonics and mathematical skills. Through role play, discussion and stories children learn that technology can be used for a range of purposes across home and school. Technology is used in the Foundation Stage, by adults and pupils to capture ideas, thoughts and experiences through images and text. This is a fundamental part of the evidencing process which tracks the learning journey.

Key Stage 1 and 2

In Key Stages 1 and 2, the planning, organisation and delivery of the Computing Curriculum is supported using the Purple Mash Computing Curriculum.

In Purple Mash, children will learn about different programmes, coding, online safety, games and creative tools. All the activities that children will be given will be open ended to allow children's creativity to flourish and allow the children to understand how different children and people express themselves. Children are also exposed to the Microsoft programmes as they progress throughout their school life. Children will be taught how to correctly use Microsoft Word, Publisher, PowerPoint, and Excel whilst understanding how to carefully select which programme dependent on the tasks needs. For example, creating a presentation to demonstrate work would require Microsoft PowerPoint.

At Key Stages 1 and 2 the Computing Curriculum is organised into the following aspects:

- E-Safety
- Programming
- Multimedia
- Technology in our lives

These themes are mapped in a long-term plan for the whole school and the learning objectives for each year group are linked to progression of skills and knowledge document to ensure progress is made across each year group (see appendix A)

Whole School Affroach to Teaching and Learning of Computing

When delivering the National Curriculum for Computing, teachers are expected to employ a sance of strategies and to use their professional judgement to decide on the most appropriate teaching and learning style.

These approaches include:

- . An approach in order to develop their understanding of some of the underlying concepts of Computer Science (coding)
- · Activities which allow pupils to practise and demonstrate their levels of understanding.
- . Using presentation technology to demonstrate something to a group of pupils or the whole class
- Individual or paired work
- · Collaborative group work
- · Pupil led demonstrations / peer mentoring.
- · Differentiated activities planned
- Teacher intervention where appropriate

Attainment targets

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study. By the end of each academic year, the vast majority of pupils in each class will be working at National Standard. Finally, Year 6's will be given the opportunity to demonstrate their computing shills by combining and selecting the correct computer software to appropriately demonstrate the knowledge acquired during their time at Aqueduct Primary School.

Responsibilities carried out by an ICT Support Technician

All equipment is supported and maintained through a weekly visit from a technician who works under the direction of the Computing Subject Leader. He is directly employed by Telford and Wrekin Council and an SLA is in place for his services.

Monitoring

The Computing Subject Leader follows a systematic and regular programme of evaluation and monitoring of the Computing curriculum, across the school.

With the aim to:

- · Check that the full curriculum is being delivered effectively
- · Evaluate the success (or otherwise) of curriculum planning and delivery
- · Have an awareness of impact and be able to demonstrate progression and attainment
- · Have an overview of resource and staff training needs
- · Ensure that aspects of Online Safety are taught appropriately and consistently

As a result of monitoring, appropriate CPD opportunities are provided for staff on an individual, group and whole school basis.

Parental Support

Children will have their own log in for Purple Mash where they will receive a personalised username and password. Children are therefore able to access Purple Mash at home to carry on their creative learning.

Safequarding Children: Online Safety

Pupils and parents read, agree and sign a home school agreement which outlines the expectations for pupils to use the internet safely in school. From September 2022 parents will sign an *E-awareness Policy* to say that they understand and comply with our agreed school rules on how to be safe. The Think then Click' agreement is then returned to school and kept as a log for permission. All staff read and sign the Social media Policy and agree that they understand and comply with our agreed school rules on using social networking sites and technology on school premises. This is also outlined in the Staff Code of Conduct section 4.2 and 4.5. The guidelines for how mobile technological devices are also outlined in this policy and agreed by all staff.

Safeguarding

Aqueduct School is committed to safeguarding and promoting the welfare of children and expects all staff and volunteers to share this commitment. This means that we have a Child Protection Policy and procedures in place which we refer to in our prospectus. All staff (including supply staff, volunteers and governors) must ensure that they are aware of these procedures. Families are welcome to read the Policy on the school website.

Our Designated Safeguard Leads (DSLs) are:

- Tammy Lockley
- • Io Clarke
- Ash Palin
- Cara Duppa
- • Lisa Batchelor

Our governor responsible for safeguarding is Louise Aubrey.

Gallery







Area of Computing RECEPTION E-Safety I can talk about good & bad choices in real life (link to how the same things can happen on computers) I can talk about good and bad choices when using websites – being kind, telling a grown up if something upsets us & keeping
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being kind, telling a grown up if something upsets us & keeping
ourselves safe by keeping information private
Programmin I can help adults operate equipment around the school,
g independently operating simple equipment (turning equipment on and
off)
I can press buttons on a floor robot and talk about the
movements (beebats)
Multimedia I can use a mouse to rearrange objects and pictures on a screen
I can recognise text, images and sound when using ICT
I can use a camera or sound recorder to collect photos or sound
I can use a keyboard to write my name
Technology I can recognise purposes for using technology in school and at
in Our home
Lives I can understand that things I create belong to me and can be
shared with others using technology
I can recognise that I can use the Internet to play and learn

Appendix A

Area of	YEAR I
Camputing	
E-Safety Autumn 1	I can stay safe online by choosing websites that are good for me to visit & not inappropriate sites (Safe internet search engines, kiddle, kidrex) Spring 2 (cycle 2)
(cycle I) E-SAFETY DAY 8™ FEBRUARY	I can understand that if I create something, I own it (pictures, messages) Autumn 2 (cycle 2)
	I can begin to understand that many websites ask for information that are private Autumn 2 (cycle 2)
Pragramming	I can physically follow & give each other instructions to move around (Simon says, following exact commands)
Autumn 2 (<u>cycle</u> 1)	I can explore outcomes when buttons are pressed in sequences on a robot (beebots)
Spring 2 (cycle 1)	I can begin to use software to create algorithms, movement & patterns on a screen -Purplemash, 2code, chimps (KSI level)
Spring 1 Summer 2 (<u>cycle</u> 2)	I can use the word debug to correct any mistakes when programming a floor robot - Purplemash, 2code, chimps, bubbles (Level 3 = the wrong bubbles pop)
	I can begin to predict what will happen for a short sequence of instructions in a program - Purplemash, 2code, chimps, turtle I can begin to programme a floor robot
Multimedia	I can type out a sentence using Microsoft Word
Autumr I (cycle I)	I can use a video or camera to record an activity Summer 1 (cycle 1) Summer 1 (cycle 2)
Autumn I (<u>cycle</u> 2)	I can use index fingers (left and right hand) on a keyboard to build words & sentences
	I can use the space bar (thumbs) to make spaces between words.
Technology	I can begin to understand the reasons why we can use the
in Our	Internet
Lives.	I can begin to understand what the Internet is and why it is used
Spring 1 (cycle 1)	I can understand that not all things on the Internet will be true
Spring 2 (<u>cycle</u> 2)	

Area of	YEAR 2
Camputing	
E-Safety	I can independently use safe search engines to search on the
	Internet Spring 2 (cycle 2)
Autumn I	I can explore what cyber-bullying means & what to do if I
(cycle 1)	encounter it Autumn 2 (cycle 2)
E-SAFETY DAY	I know that if I put information online it leaves a digital footprint
8™ FEBRUARY	or "trail" Autumn 2(cycle 2)
	I understand that not all websites are equally good sources of
	information Autumn 2 (cycle 2)
Pragramming	I can physically follow and give each other forward, backward &
Autumn 2	turn (right-angle) instructions
(<u>cycle</u> 1)	I can create an algorithm to achieve a purpose
Spring 2	I can predict what will happen & test results - Purplemash, 2code,
(cycle 1)	chimps, turtle
	I can programme a floor robot to move forwards and backwards
	I can turn a floor robot
Spring 2	L
Summer 2	
Multimedia	I can show control using a mouse using paint to draw a picture.
	I can create my own document adding text and images. Summer 1
	(cycle 1)
Autumn I	I can use a keyboard to enter text (index fingers left & right
(<u>cycle</u> 2)	hand) Summer 1 (cycle 1)
	I Know when and how to use the RETURN/ENTER key. Use SHIFT
	& CAPS LOCK to enter capital letters. Use DELETE & BACKSPACE
	buttons to correct text. Summer 1 (cycle 1)
	I car edit ard save a document Summer 1 (cycle 1)
	I can find a document I have saved. Summer 1 (cycle 1)
Technology	I can begin to understand there are a variety of sources of
.in Our	information and begin to recognise the differences
Lives.	I can begin to understand what the Internet is and the purposes
Spring 1	that it is used for
(cycle 1)	I can understand the different types of content on websites and
	that some things may not be true or accurate
Spring 2	
(cycle 2)	

Area of	YEAR 3 & 4
Camputing	
E-Safety	I can agree sensible e-safety rules for the classroom
	I can choose a secure password for age-appropriate websites
Autumn I	I can discuss what actions could be taken if I am uncomfortable
(cycle 1)	or upset online e.g. Report Abuse button
E-SAFETY DAY	I can talk about what games I enjoy playing and what good
8™ FEBRUARY	choices are when playing games e.g. content, screen time
	I can use classify to share information and talk about who can
Autumn 2	see it, and how to communicate safely and respectfully
(<u>cycle</u> 2)	
Programmin	I can test & improve / debug programmed sequences
4	I can explore outcomes when giving sequences on purplemash
Summer 1	I can use repeated algorithms to achieve solutions to tasks
(cycle 1)	I can create an algorithm to tell a simple story
Summer 2	I can explain algorithms planned by others & identify any
(cycle 2)	problems - Purple mash, 2Code, traffic light.
Multimedia	I can create and modify documents & text.
Autumn I	I can experiment with fonts, size, and colour of text.
(<u>cycle</u> I)	I can use a keyboard effectively, including the use of keyboard
Spring 2	shartcuts.
(Cycle I)	I can use font sizes and effects such as bullet points effectively
	I can correctly use spell check
Autumn I	I can look at their own, and a friend's work & provide feedback
Spring 2	that is constructive & specific
(<u>cycle</u> 2)	I can research a topic safely.
Technology	I can save work on the school network, on the Internet and on
.in Our	individual devices Autumn 1 (cycle 2)
Lives.	I can use appropriate tools to collaborate and communicate online
Summer 2	(Emails) Spring 1 (cycle 2)
(cycle I)	I can use simple search tools and find appropriate websites
	Throughout (Safe internet search engines, both cycles)

Anna of	YEAR 5 & 6
Area.af	7EAK 5 & 0
Camputing	I am follow the confety sules when weine any technology is subject and
E-Safety	I can fallaw the e-safety rules when using any technalagy in schaal and at hame.
Autumn I	
	I can demonstrate haw to be as safe as passible, far my awn personal
(cycle 1)	use of the Internet and chaices I make
E-SAFETY DAY 8™ FEBRUARY	I can discuss the impartance of keeping an adult informed about what I
	an daing anline, and haw to repart concerns
Autumn I	I an aware of how safe individuals need to be when using anline
(cycle 2)	cammunicatian taals e.g. blags, messaging
	I can take steps to pratect devices fram virus threats
Pragramming	I can recard in same detail the steps (the algarithm) that is required to
	achieve ar autcane
Summer 1&2	I can predict the autputs far the steps in an algarithm
(cycle I)	I can plan, pragram, test & review a pragram
Autumn 2	I can write a pragram which fallaws an algarithm to salve a prablem far
(<u>cycle</u> 2)	a flaar rabat
	I can write a program which fallows an algorithm to achieve a planned
	autcame for appropriate programming software
	I can cantral an screen minics & physical devices using are ar mare
	input
	I can create variables to pravide a scare/trigger an actian in a game
	I can link errors in a program to problems in the ariginal algorithm
Multimedia	I can select an appropriate on-line taal to support different tasks Spring I
Autumn 2	(cycle 2)
(cycle I)	I can cansider the audience, atmasphere and structure of my presentation
_	.or video Summer I (cycle 2)
	I can callect and use information and media from a range of sources
	(cansidering capyright issues)and add the informatian to a presentatian
	far a specific audience Summer 1 (cycle 2)
	I can add saund, images, text, transitians, hyperlinks and HTML cade
	effectively in presentations Spring 1 (cycle 2)
	I can evaluate the effectiveness of my own work and the work of others
	Spring 1 (cycle 2)
Technology	I can describe different services pravided by the Internet (Emails and
.in Our	researching) Summer 1&2 (Cycle 1)
Lives.	I can describe different parts of a computing device & how it connects to
Thraughaut	the Internet. Cannect a camputing device to a keybaard, mause ar printer
(bath.	I can screen share within a safe enviranment
.cycles)	I understand haw to use search engines safely Summer 1&2 (Cycle 1)
	I know the best way of being specific in my research, to gain the
	infarmatian I need. Summer 1&2 (Cycle 1)
	I can use search engines as part of an effective research strategy Summer
	1&2 (Cycle 1)