Computing at

St Andrew's CE (VA)

Infant School

Purple Mash

Planning

Purple Mash is the primary source of lesson plans for computing at St Andrew's Infant School. Purple Mash have produced schemes of work based on the **National Curriculum 2014**. Children all receive their own personal purple mash logins to access during lessons; they are printed and organised in wallets. The children have their logins in their home/school reading record so that they are able to access activities at home. The benefit of children having their own login is that they can access '2dos' and also save their work. It teaches children about online safety by keeping their username and passwords private. Lessons are ordinarily taught in the ICT suite which has computer/internet access and pupils are given allotted time to be able to complete their lessons with Charlene Kerry (HLTA). We are determined to provide the children with opportunities to develop their computing skills when working in other areas of the curriculum. The children use a wide range of computing skills including:

- Word processing to write stories, poems or letters
- Databases to record information, e.g. minibeasts databases
- IWB screens to pose mathematical problems and to model work
- Desktop publishing to design posters, leaflets or cards
- Multimedia presentations to present text, pictures and sound
- Drawing programs to create pictures and designs
- Using search engines to find information
- Cameras/ iPads to record what they have done in class or on a visit
- Using Purple Mash to produce a range of work showcasing their understanding in different subjects including- newspaper reports, animations and whole class mind maps.
- Playing educational games online to support learning
- Videos to enhance learning experiences
- Simulations to explore real and imaginary situations

EYFS

In Reception, children use technology in their everyday lives, pupils starting school ordinarily have a good understanding of technology and how it works. In the EYFS Statutory Framework 2021, technology is not taught as a set of lessons but it is interwoven within the other areas of learning. Purple Mash have suggested some areas of learning that technology can link to.

Communication and Language

Early Learning Goal:

Speaking

Children at the expected level of development will:

Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary.

Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate.

Express their ideas and feelings about their experiences using full sentences, including use of past, present and future tenses and making use of conjunctions, with modelling and support from their teacher.

Teachers show children how to access age-appropriate games/apps and use it for a purpose on computers, laptops, IWB and tablets etc. Children are shown how to use a mouse and keyboard to access age-appropriate activities during continuous provision during Autumn and Spring term. Purple Mash has age-appropriate games for EYFS children to access "Mini Mash". This section of the program looks like a

classroom and it gives younger pupils an opportunity to access simple games and activities. In the Summer term, children are taught to log on and access other features of Purple Mash in order to prepare them for KS1.

KS1

In Key Stage One, pupils are primarily taught through the Purple Mash scheme. Each year group have overviews which details the units and a suggested time frame in which to teach it. The lessons are designed to be interactive; each 'aim' per lesson is linked to **National Curriculum** objectives and all resources are attached within the Purple Mash program. The units are sometimes rearranged and this is determined by the class needs/topics that pupils will cover at different points in the academic year.

Teachers have a clear success criteria and this enables any pre-teaching of specific vocabulary or any misconceptions to be addressed before/during/after the lesson. The lesson plans give details on the types of activities that will happen during the lesson and also any resources that will be required (usually the resources/pictures will be linked in). The Purple Mash PowerPoints show the lesson objective and instructions on how to gain the skills and knowledge needed to complete the activity. Purple Mash knowledge organisers that are shared with the pupils and displayed throughout the lesson. The lesson plans also set out a clear sequence to the lesson to show what a "typical" lesson should look like. Staff are offered technical support during 'webinar' training as well as contacting the Computing Co-ordinator and other teachers. Any technology issues that cannot be resolved within school should be reported to Steph Hardaker (office) to be transferred to Calderdale ICT support.
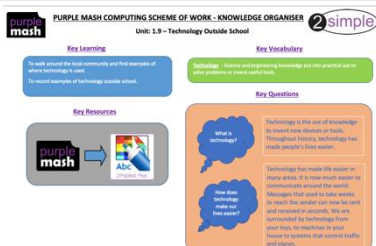
All classrooms have a minimum of two computers so that technology can be seen as an important part of our daily lives. All teachers have access to Purple Mash and can set up '2dos' for pupils in their class this is

similar on the program Education City teachers can set up 'my city', this might be as a lesson starter, catch up or to embed knowledge or skills further.

Assessment

When children have completed their '2 dos' on Purple Mash teachers are able to comment on how well it has been completed, offer suggestions to improve their work and comment on positives. All children's assessment is recorded half termly on the St Andrew's Infant School tracker (located on the P: drive) and this is based around the units that have been completed and what knowledge has been tested against the **National Curriculum 2014**. The information recorded then indicates what skills need to be recapped or integrated within future lessons.

Resources & safety

ICT equipment is mainly found within the ICT suite which consists of desktop computers, IWB, cameras and Beebots. The equipment is kept in well ventilated areas, away from any liquids and is kept in either locked cupboards or rooms to ensure security. Classroom ICT equipment is kept locked to comply with GDPR regulations if not in use. Any issues with equipment should be shared with the office staff so that Calderdale ICT can be notified.

Pupils are educated on the importance of Online Safety in all ICT lessons. There are displays around school explaining to pupils what they should do if they see something they do not like. As a school we have a Safer Internet day. On that day children have an assembly recapping internet rules and also how to keep themselves safe online in school and at home.

Useful websites

Parents receive notifications through homework, newsletters and in-house workshops on useful and educational websites that pupils can access at home.

Phonics
Letters and sounds- http://www.letters-and-sounds.com/
Phase 2 Games- http://www.letters-and-sounds.com/phase-2-games.html
Phase 3 Games- http://www.letters-and-sounds.com/phase-3-games.html
Oxford Owl- https://home.oxfordowl.co.uk/
Geraldine the Giraffe (a puppet to read words using phonics). One short programme for each new sound in Phase 2 and 3. Watch on You Tube-https://www.youtube.com/results?search_query=geraldine+the+giraffe
Alphablocks (a BBC children's show aimed at developing phonics)-

http://www.bbc.co.uk/cbeebies/shows/alphablocks

Maths
Maths games- https://www.topmarks.co.uk/maths-games/3-5-years/counting
Ten ways to help your child with maths- http://www.bbc.co.uk/cbeebies/joinin/numberblocks-help-your-child-with-maths
Numberblocks (a BBC children's show designed to help development of number)- http://www.bbc.co.uk/iplayer/cbeebies/episode/b08r41qb/numberblocks
The Big Number Song (Helps children count to 100 in 1s) https://www.google.co.uk/search?q=the+big+number+song&rlz=1C1VFKB_enGB709GB709&oq=the+big+number+song&aqs=chrome..69i57.4440j0j4&sourceid=chrome&ie=UTF-8
Count by 2s- https://www.youtube.com/watch?v=GvTcpfSnOMQ
Count by 5s- https://www.youtube.com/watch?v=EemjeA2Djjw
Count by 10s- https://www.youtube.com/watch?v=Ftati8iGQcs

General
Topmarks https://www.topmarks.co.uk/

Education City www.educationcity.co.uk

Cbeebies https://www.bbc.co.uk/cbeebies

Cbbc https://www.bbc.co.uk/cbbc

ICT Games http://www.ictgames.com/

Twinkl www.twinkl.co.uk

Useful Apps

BBC Bitesize

Maths kids

Sticky Knowledge

Computer science		Beebot buttons instructions forwards backwards direction move go	Sorting Criteria Instruction Algorithm Computer Program Direction Challenge Arrow Undo Rewind Forward Backwards Left turn Debug	Action Algorithm Button Debug/debugging Event Nesting
Digital Literacy		Website Safe Password Tools Trays Share Print Create Alert	Unit 1.1 online safety and exploring **Purple** log in Username Log out Save Password	Unit 2.2 online safety Unit 2.5 effective searching Search Internet Sharing Email Attachment Digital footprint Search engine
Information Technology		Technology Internet Mini mash Games	Unit 1:3 pictograms Unit 1.6 animated story books Unit 1.8 **Spreadsheets** Pictogram Data Collate Animation E-book Font File Sound effect Display board Arrow keys Backspace key Cursor Columns Cells Clipart Count Delete key Image toolbox Row Spreadsheet	Unit 2:3 pictograms Unit 2.4 questioning Unit 2.6 creating pictures Unit 2.7 making music Unit 2.8 presenting ideas Backspace key Copy and paste Columns Cells Count tool Delete key Equals tool Lock tool Rows Spreadsheets Pictogram Question Data Collate Binary tree Avatar Database Impressionism Palette Pointillism Share Surrealism Template Bmp Compostion Digitally Tempo Volume Concept Node Animated Quiz Non-fiction Presentation Narrative Audience