



Computing STRATEGY for 2021 – 2022

INTENT

- All staff to have a clear vision of Computing for Trewirgie Infant & Nursery School
- Computing to be inclusive and accessible to all
- For children to recognise that Computing and the use of technology plays a fundamental role in how we live our lives
- For our children to be equipped with the skills needed to thrive in our ever-changing world growing into competent, responsible future global citizens and creative users of technology.
- To have a clear curriculum and progression of skills with a clear, robust assessment system using Purple Mash and photographic evidence
- To have a curriculum that has strong cross-curricular links with maths, literacy, science and creativity.

Vision

At Trewirgie Infants' & Nursery School, our aim is to equip children for their future lives in an ever changing technological world. We ensure children are equipped with the skills they need to thrive in the current climate which has technology at its heart. Computing is taught to foster a passion and enthusiasm for a range of technologies through cross-curricular and progressive skills.

Curriculum overview

The core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content. Computing supports pupils to become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.

Our school uses Purple Mash to support the learning of each strand of the Computing curriculum. Each child has a log in and password to use at school and at home meaning children can access their school work at home as a way of extending their Computing learning. Purple Mash also offers opportunities for children to complete cross curricular work, helping to embed their Computing skills at every opportunity.

IMPLEMENTATION

Across the school, children are encouraged to use hardware and software, safely and with purpose. They use technology to create/debug algorithms, handle data, record their work, further their learning and express themselves. The promotion of E-Safety is incredibly important for all children, staff and parents.

Approaches to teaching

Every lesson builds on knowledge, skills and understanding from previous lessons and prior learning in earlier year groups. Lessons are taught in a logical progression, systematically and explicitly enough for all children to acquire the intended knowledge and skills. Lessons follow a logical sequence and moves learning forward. As a school we are following the PurpleMash scheme of work to ensure that skills are taught to the highest standard, teachers can then adapt the speed/pace/support to best support the pupils in their class. Lessons do not need to be solely taught using equipment (eg laptops) as units/lessons on E-Safety and coding can be completed using paper and craft materials.

It is important to mention that although 'Understanding the World- Technology' is no longer part of the Early Years curriculum that Julian Grenier (Creator of the new Develop Matters framework) states that it is because technology is woven into a child's everyday life and is understood as a way that children may record and develop their play and thinking, switching fluidly between first-hand and on-screen experiences.

Approaches to supporting disadvantaged and SEND pupils

Computing lessons should be accessible to all and computing lessons can be adapted for those with additional needs by changing resource (eg using an iPad rather than a laptop with a track pad) used and providing support as needed.

Development of staff expertise

A staff survey has been carried out and training was provided through 2020-21 and will continue throughout 2021-22 to ensure that all staff are confident in delivering the curriculum effectively. As a school we are continuing to use PurpleMash and will have staff training using the software/scheme to ensure staff are confident to deliver the provision.

IMPACT

By the end of Key Stage 1, our children will have a range of experiences using different software and hardware. Children have developed their knowledge and skills in each subject (Digital Literacy, Computer Science and Information Technology) over 3 years of teaching.

**This should directly relate to the Intent section i.e have you achieved what you set out to?
Therefore each sub-heading here should address the subheadings included in the Impact section.
An example is provided below...**

Measuring progress (Intent statement was "for all pupils to make strong progress from accurate starting points")
Work will continue to be completed on PurpleMash and will be monitored by the class teacher and the computing lead. To ensure that there is a record of skills progression and unit coverage there will be evidence of work completed in topic books. This ensure that if work/data is missing online that there is still clear evidence of skills taught and progress.

Successful engagement (Intent statement was "to fully engage all learners and their families so that they make a secure and confident start to their school life")

Could include evaluations of... parent satisfaction meetings/surveys... observations by visiting governors... learning walks... reduction in numbers of cause for concerns/behaviour logs

If this document is written at the start of the year, this section will include **planned impact, then in the Summer term this can be replaced or added to with the **actual** impact**