**Troon Community Primary & Nursery School**

**Computing Curriculum Statement**



**"Everyone should know how to program a computer because it teaches you how to think" – Steve Jobs**

### Intent

At Troon we know that computing skills underpin modern life and we appreciate the importance of teaching these skills and concepts to our pupils to prepare them for participation in a rapidly changing world. Children need to build confidence, knowledge and understanding of how technologies work and how inter-connected systems can be employed in order that they can adapt flexibly to change in the future. We teach concepts such as: algorithms, programming, reasoning, coding, sequence and selection in a way that engages and builds the confidence and abilities of the pupils.

### Implementation

We base our lessons on the Teach Computing scheme of work from the National Centre for Computing Excellence (N.C.C.E.). The curriculum is structured into units for each year groups. These units are broken down into lessons covering four broad areas – Computing Systems and Networks, Data Information, Creating Media and Programming.

Lessons in units are sequential and skills and concepts are developed and build upon prior knowledge and experience. This allows children to build solid foundations in their long-term understanding of Computing. At Troon, we provide children with a broad and balanced set of learning experiences, using a variety of high-quality, easy-to access hardware and software choices.

### Impact

Children at Troon School will receive an engaging, high quality and practical computing education. Building on their knowledge and understanding, pupils will use information technology to create programs, systems and a range of content. Computing teaching and learning will ensure that pupils become digitally literate – that they are able to use, express themselves and develop their ideas through digital technology at a level suitable for future workplace and as active participants in a digital world. They will develop a flexible, creative and adaptable mindset, preparing them for the evolving technology they will encounter.