

Grand Avenue Primary and Nursery School

A Policy for Computing

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Grand Avenue Primary and Nursery School

Computing Policy

The purpose of this document

The purpose of this policy is to define and frame the computing curriculum. It reflects the school's values and philosophy in relation to the teaching and learning of computing. It provides a structure within which teaching staff and other adults in the school can operate. It gives guidance and planning and assessment. The policy should be read in conjunction with the National Curriculum and the school e-safety policy.

Key principles

Teaching at Grand Avenue is 'Learning Centred', meaning that each element of whole school and classroom practice is designed with an understanding of how children learn best at its heart.

Our aims at Grand Avenue are to stimulate and promote the use of computing in order to support and extend learning.

Aims

- Learning activities are well planned, ensuring progress in the short, medium and long term
- Teaching and learning activities enthuse, engage and motivate children to learn, and foster their curiosity and enthusiasm for learning
- Assessment informs teaching so that there is provision for support, repetition and extension of learning for each child, at each level of attainment
- The learning environment is ordered, the atmosphere is purposeful and children feel safe
- There are strong links between home and school, and the importance of parental involvement in their children's learning is recognised, valued and developed
- Provide opportunities to develop morally and highlight ethical issues surrounding the misuse of information
- Enable social development, through considering how can computing can facilitate communication and sharing of information.

We aim to provide opportunities for pupils to develop the key skills in the 3 main areas: **Information technology, digital literacy and computer science.**

These will be covered by developing;

- ❖ Communication, through reading and selecting from a range of sources. Planning, writing and refining texts in different styles and for different purposes. Communicating face to face, through blogs and by e-mail, and discussing and reflecting critically on their own and on others' work
- ❖ Application of number, through working with quantitative data and mathematical models. Pupils will also be using coding programs to solve mathematical problems
- ❖ Computing, by creating and debugging short programs using algorithms.
- ❖ Working with others, through discussing and reflecting critically on their own and others' work
- ❖ Improving own learning and performance through reviewing, modifying and evaluating their work as it progresses
- ❖ Problem solving, through modelling real situations and developing solutions to problems when working with computing
- ❖ Extending its application to other areas of the curriculum, so preparing the children for uses of technology in everyday life. This includes using technology for research or completing projects.

Organisation

Computing will be taught through the school Skills ladder which ensures full coverage of the National Curriculum's Programmes of Study.

The children will experience computing through:

- ❖ Use of computers, laptops and iPads
- ❖ Use of equipment such as the Digital camera, Camcorder, CD players, Microphones, Data logging equipment, Videos, TV, floor turtles and other remote controlled toys
- ❖ Sources such as people and books

The Computing Co-ordinator will

- ❖ Provide INSET to provide further development when necessary.
- ❖ Attend relevant courses and disseminating invaluable information
- ❖ Monitor the use of the Skills ladder and the delivery of the units
- ❖ Manage update and order appropriate resources
- ❖ Keep abreast of new developments in the National Curriculum, LA policies and guidelines and updating documentation when necessary.

The Classroom teacher will

- ❖ Plan and deliver activities set out in the school skills ladder.
- ❖ Give every pupil the opportunity to experience success in learning and to achieve as high a standard as possible
- ❖ Teach knowledge, skills and understanding according to the National Curriculum programmes in ways that best suit their pupils' abilities.

The Governors will

- ❖ Become familiar with the issues surrounding the policy
- ❖ Evaluate the success of the policy through visits to school
- ❖ Support the implementation of this policy
- ❖ Ensure funding to support this policy is considered during the budget setting process
- ❖ Have a clear view of the strengths and areas for development

Planning

The long term planning for the school adheres to the National Curriculum. Each year group is required to create a curriculum map outlining how they will teach the skills from the computing skills ladder. Staff create medium term plans in line with school policy and then weekly plans are devised. Weekly planning is annotated to show assessment for learning and next steps in learning.

Assessment

At the end of each unit, formal assessment will take place to assess the children's mastery against the Skill ladder statements for the unit. These will be recorded on the school proforma and analysed by the Computing coordinator. See assessment policy

Resources

There is a well-equipped ICT suite with 16 computers and printer.

All classrooms have an interactive whiteboard, PC, visualiser and iPad.

Ipad and laptop trolleys are available for classroom use.

Equal Opportunities

Grand Avenue will ensure that every child ,regardless of physical, sensory, intellectual, emotional or behavioural needs, gender, social and cultural background, religion, or ethnic origin, has access to a range of planned computing based experiences.

All pupils are given appropriate work to ensure differentiation and progression. More able pupils are challenged through extension and enrichment activities. Children with SEN are supported through a variety of strategies.