Grange Primary School

September (2016)

Computing and ICT Policy

'A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems.'
National Curriculum 2014

Values and Aims
This policy will outline how we at Grange Primary School deliver the new expectations of the 2014 national Curriculum within Computing. Information Communication Technology (ICT) is a resource, which is used by all children and staff at Grange Primary School, irrespective of gender, race, culture or ability to enhance and support all areas of the curriculum. ICT is forming and ever increasing part of our children's lives and throughout their time at Grange Primary School pupils are made aware that ICT is an intercultural medium used in world-wide communication.

We believe that every child matters and therefore all children will have the opportunities to use and experience ICT in a purposeful and relevant way. They are encouraged through the use of technology to become more independent and to develop an enthusiasm for learning and a desire for excellence.
Our aim is to produce learners who are confident and effective users of ICT.
We will do this by ensuring all children:
  - Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.
  - Can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems.
  - Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
  - Are responsible, competent, confident and creative users of information and communication technology.

Within the framework of the National Curriculum and through the Rising Stars scheme of work; ITASS scheme of work and IPC curriculum, the needs of all the children, at every stage of their development, will be catered for. The school also provides a programme of continuing staff development for all staff, including TA's and support staff, to enable them to be effective users and teachers of ICT.

Teaching and Learning – Policy into Practice
Computing should not be taught as a subject in its own right, instead it should link into topics and be used to support and develop skills within other subjects wherever possible. The Rising Stars scheme of work has been tailored to fit in with a cross curricular approach. Computing skills are taught so that they can be applied and placed in context through the delivery of the IPC. The new national curriculum was introduced in September 2014 and has

been embedded into the Grange Primary School curriculum. All staff worked alongside an Newham ICT consultant to plan out the two year cycle that matched all objectives for the national curriculum through the Rising Stars approach. To familiarise themselves with the new expectations, they have also had training sessions with an ICT consultant to ensure they have sufficient subject knowledge to teach the units.

Classroom Organisation

At least one computer, one IWB and one visualiser is available every day for each class and the children will experience frequent use of the laptops, tablets and IPads. Teachers and children will develop their own systems to ensure fair and equitable use of the computer by all children.

The school has:
- 2 ICT laptop trolleys containing 34 minibooks
- 2 laptop trolleys consisting of 30 laptops collectively
- 20 IPads
- Interactive whiteboards in every classroom (and one in the hall)
- Printers
- Scanner
- Visualisers in every classroom
- Each child in the school has access (through a personalised username and password) to The Bug Club, where they can access a wide library of books at home or at school
- Each child in key stage 2 has access (through a personalised username and password) to Mathletics, where they can access personalised homework and compete against children all over the world in competitive maths challenges
- Flip cameras
- Digital cameras
- Dictaphones
- Beebot's
- Access to educational software through the school network.

Each class has access to the laptop trolleys once a week for two hours. This time is intended for the teaching of ICT skills using a cross-curricular context where possible.

Computing activities will be carried out in a range of contexts so that the children are able to apply ICT appropriately. Activities can be classified in the following ways:
- Focusing primarily on the development of computing capabilities and skills
- Focusing on both computing capabilities and on the skills, knowledge and understanding of another subject.
- Using ICT but focusing on the development of skills, knowledge and understanding of another subject.

Careful planning is necessary to ensure that all children have sufficient time to develop and implement their computing skills. To ensure each child is catered for, the following points should be taken into consideration:
- Groups should be mixed (sex/ability) wherever possible. Careful monitoring of these groups is necessary to ensure that no one child dominates.
- Children with EAL should, wherever possible, be included in mixed groupings for support with their language development and the introduction of new vocabulary.

☐ All teachers are role models for children. Teachers should be aware of their influence on children and develop their own confidence and competence in the use of the computer.

Internet, National Grid for Learning and E Safety (Health and Safety)
The internet is an integral part of Computing education and development. In order to facilitate the safe use of the internet, Grange subscribes to a filtered internet provider. The LGfL filter blocks add-ons and unauthorised interfaces and web pages. Each child and parent is required to agree to the use of the internet responsibly ensuring that they report any unsuitable material that they may come across. Hector is installed on all interfaces and should the children come across inappropriate material, they can click on Hector if they come across any unacceptable material. This closes down the site from the computer screen and enables the teacher to investigate.

Parents are invited to workshops where they are informed of the dangers of the internet and the precautions required ensuring the safe use of ICT at all times. The Internet Code of Practice must be referred to at least once a term to remind children of the internet rules. The children must not access the internet unless an adult is present at all times. Teachers plan ICT lessons with careful consideration to the access of the internet. The use of the internet is modelled and guided by the teacher throughout the lesson. All staff are made aware of and abide by the school E safety policy and the ICT risk assessments.

SEND and Computing
At Grange Primary School we aim to ensure the needs of all pupils, including those with SEND, are met. We seek to ensure that all barriers to learning are removed to enable children with SEND to be offered full access to a broad, balanced and relevant education. This may include aspects such as adapting the curriculum, and/or resources. For example, enlarged texts, adapted keyboards.

All staff at Grange Primary School have the highest aspirations for all their pupils, including those with SEND, and promote high expectations.

Assessment in Computing
The children's work in ICT is assessed during and at the end of each unit of work. Records are kept in the form of teachers annotating and adapting their planning. At the end of each year, children's progress is assessed against the end of key stage attainment targets. This assessment is kept by the Computing Coordinator and is passed on to the next year class teacher for each cohort of children.

SMSC in Computing
At Grange Primary School the promotion of pupils' spiritual, moral, social and cultural education is considered to be a whole school issue. Spiritual, Moral, Social and Cultural Development is promoted not only through all the subjects of the curriculum but also through the ethos of the school and through the development of positive attitudes and values and planned time for reflection. This policy supports and reinforces the aims of Grange Primary School, valuing all children and staff equally and as individuals.
At Grange ICT contributes to children's SMSC development through:

- Preparing the children for the challenges of living and learning in a technologically-enriched, increasingly inter-connected world.
- Making clear the guidelines about the ethical use of the internet.
- Acknowledging advances in technology and appreciation for human achievement.

<u>Leadership</u>
The Computing Curriculum Leader is responsible for the implementation of this policy; the management and repairs of ICT resources through the School Based Technician, monitoring Computing standards of achievement and progression, and working with the schools SLT to arrange appropriate Inset for all members of staff where necessary. Grange is committed to continuing the reliability of the network and therefore subscribes to one day per week of the technicians service from it@ss.
The Class Teachers are responsible for the delivery of this policy and the care and security of the hardware and software.
The school is committed to ongoing resourcing of ICT equipment and software, in relation to the School Improvement Plan.

This policy was agreed by the Pupils and Parents Committee on -

This policy will be reviewed on -