



"Developing potential without limitations"

Frieth C.E.C. School

Computing and Information Technology Policy

Date implemented : Spring 2015

Member of staff responsible: Computing and IT Coordinator

Governing body committee responsible: Curriculum Committee

Headteacher's signature

Chair of Governor's signature

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COMPUTING and ICT POLICY

This policy reflects the values and philosophies of Frieth C.E.C. School in relation to the teaching and learning of Computing and the use of Information Technology. It should be read in conjunction with the EYFS policy, the Curriculum Policy and the 2014 National Curriculum.

Aims and Objectives

The 2014 National Curriculum for Computing aims to ensure that all pupils:

- 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.

In addition, at Frieth School we aim to ensure that all pupils:

- Are given opportunities to apply and develop their I.T. capability through the use of I.T. tools to support their learning in all core subjects.
- To start to use I.T. to develop their ideas and record their creative work.
- To be aware of I.T. both inside and outside the school environment.

Pupils should be given opportunities to support their work by being taught to:

- Find things out from a variety of sources, selecting and synthesising the information to meet their needs and developing an ability to question its accuracy, bias and plausibility.
- Develop their ideas using I.T. tools to amend and refine their work and enhance its quality and accuracy.
- Exchange and share information, both directly and through electronic media.
- Review, modify and evaluate their work, reflecting critically on its quality, as it progresses.

Organisation

In order to achieve the aims and objectives laid down for Computing and the use of I.T. there will be careful planning. Teachers outline the National Curriculum objectives to be used each term and will be adjusted to allow for differentiation within mixed age classes using ICT skills progression tables. Activities are planned to match the objectives and to link with the Creative Curriculum topics

for each term. I.T. is utilised to underpin learning within the wider curriculum, and computing is taught as a separate subject each week.

Teaching and Learning Style

In order to equip children with the technological skill to become independent learners, the teaching style that we adopt is as active and practical as possible. We use direct instruction on how to use hardware or software to ensure acquisition of skills and combine this with cross-curricular opportunities to allow individuals or groups of children to use I.T. to help them progress in whatever they are studying.

We recognise that all classes have children with a wide range of I.T. abilities. This is especially true when some children have access to I.T. equipment at home, while others do not. We provide suitable learning opportunities for all children by matching the challenge of the task to the ability and experience of the child. We achieve this in a variety of ways:

- Setting tasks which are open-ended and can have a variety of responses;
- Setting tasks of increasing difficulty (not all children complete all tasks);
- Grouping children by ability in the room and setting different tasks for each ability group;
- Providing resources of different complexity that are matched to the ability of the child;
- Using classroom assistants to support the work of individual children or groups of children.

Time Allocation

Children are taught in class base groups of mixed ages

Planning

All teachers base their planning on the 2014 National Curriculum objectives and a variety of published resources. Cross curricular links are made in other subject planning.

Assessment and Recording

I.T. can be assessed in a variety of ways:

- Observations of a child or group on task;
- Discussion with children about their task;
- Work on screen or a print out;
- Children's own evaluation of their work.

These assessments:

- Inform future planning;

- Provide information about individuals or groups;
- Provide summative information for parents.

Reporting

Children are given immediate feedback during I.T. lessons as needed. I.T. is included in the annual written report to parents in the Summer Term.

Resources

Each class has access to the laptops and tablets for classroom use; an interactive LED whiteboard, CD players, staff laptops, recording equipment, headphones and software. Bee bot and roamer resources are also available. The school buy into Education city, Purple Mash, PhonicsPlay and Espresso learning software and actively research other good online computing and learning resources.

Inclusion

This policy takes note of three principles for inclusion:

- Setting suitable learning challenges;
- Responding to pupils' diverse learning needs;
- Overcoming potential barriers to learning and assessment for individuals and groups of pupils.

All teaching staff and classroom assistants aim to ensure that all children are treated equally, irrespective of gender, ability, ethnic origin, social or physical circumstances, and have equal access to the I.T. curriculum.

Health and Safety

When working with electrical equipment pupils should be taught:

- About hazards, risks and risk control;
- To recognise hazards, assess consequent risks and take steps to control the risks to themselves and others;
- To manage the environment to ensure the health and safety of themselves and others.

Internet Safety- C.E.O.P.

This school is committed to safeguarding and promoting the welfare of children and young people and expects all staff and volunteers to share this commitment. The health and safety of pupils is paramount. Children are taught how to keep themselves healthy and safe. The children use the C.E.O.P. site as part of their ongoing lessons on using the internet.

