Information Technology
Ysgol Betws

Aims

- To enrich learning across all areas of the curriculum.
- To promote progression between infant, primary and secondary education.
- To access all areas of the curriculum through the use of ICT.
- To ensure that all children are competent digital learners.
- To ensure that all children have access to a variety of ICT equipment.

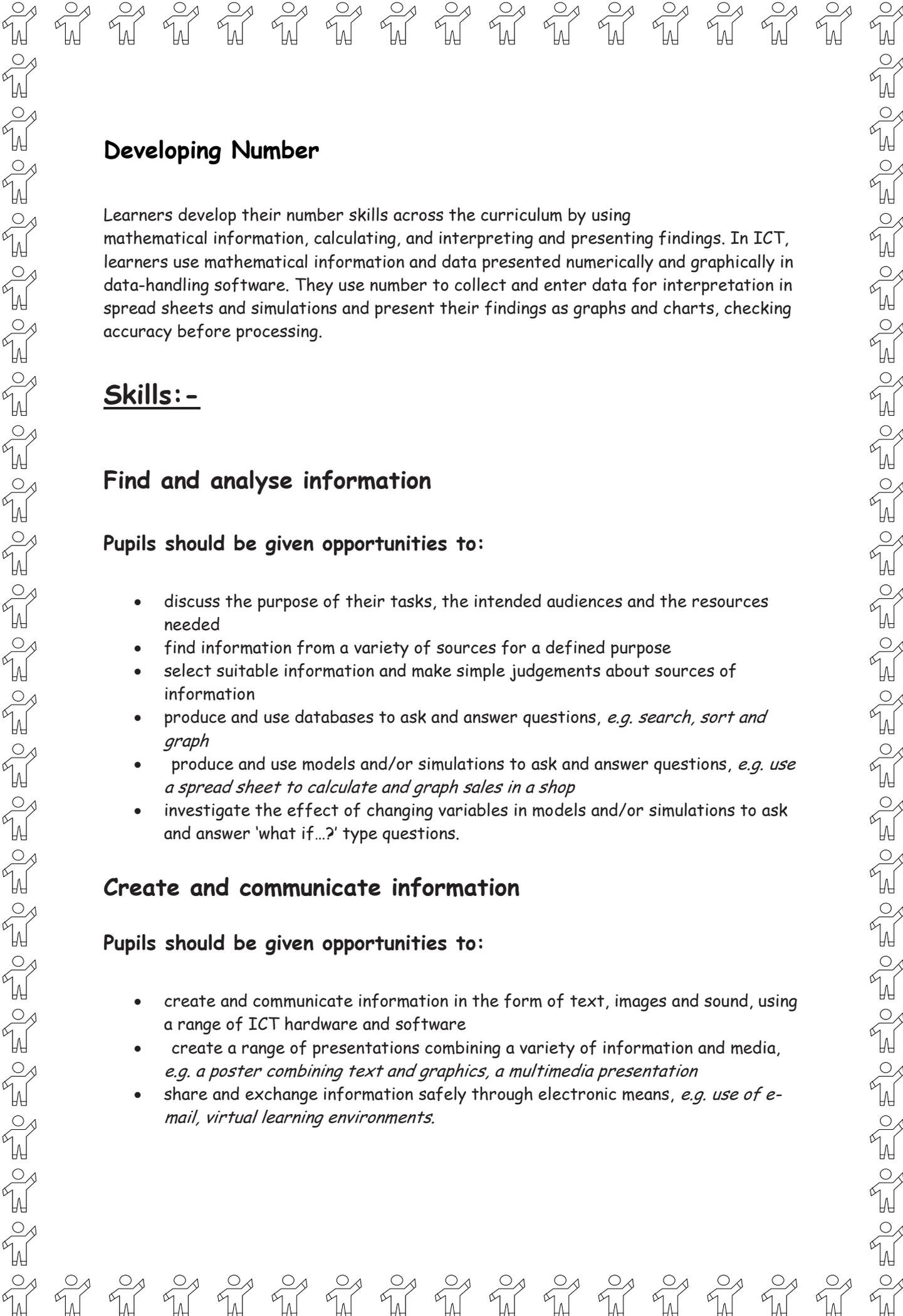## Skills Across the Curriculum.

Developing Thinking.

At Betws, learners plan their activities identifying appropriate software and hardware. They consider the needs of the audience and they create and develop their presentations accordingly. They use ICT to explore and solve problems in a range of contexts and reflect on the strengths and weaknesses of their solutions.

Developing Communication

In **ICT**, learners communicate and present information in a variety of ways, including text, graphs, pictures and sound, to support their activities in a range of contexts. They read information from a wide range of ICT and non-ICT sources and discuss their work with their peers, teachers and others. They use ICT to interpret and analyse information and communicate their findings in ways suitable for their intended audience and purpose.

Developing ICT

Learners develop their ICT skills across the curriculum by finding, developing, creating and presenting information and ideas and by using a wide range of equipment and software. Learners use ICT individually and collaboratively, depending on the nature and context of the task in hand.

Developing Number

Learners develop their number skills across the curriculum by using mathematical information, calculating, and interpreting and presenting findings. In ICT, learners use mathematical information and data presented numerically and graphically in data-handling software. They use number to collect and enter data for interpretation in spread sheets and simulations and present their findings as graphs and charts, checking accuracy before processing.
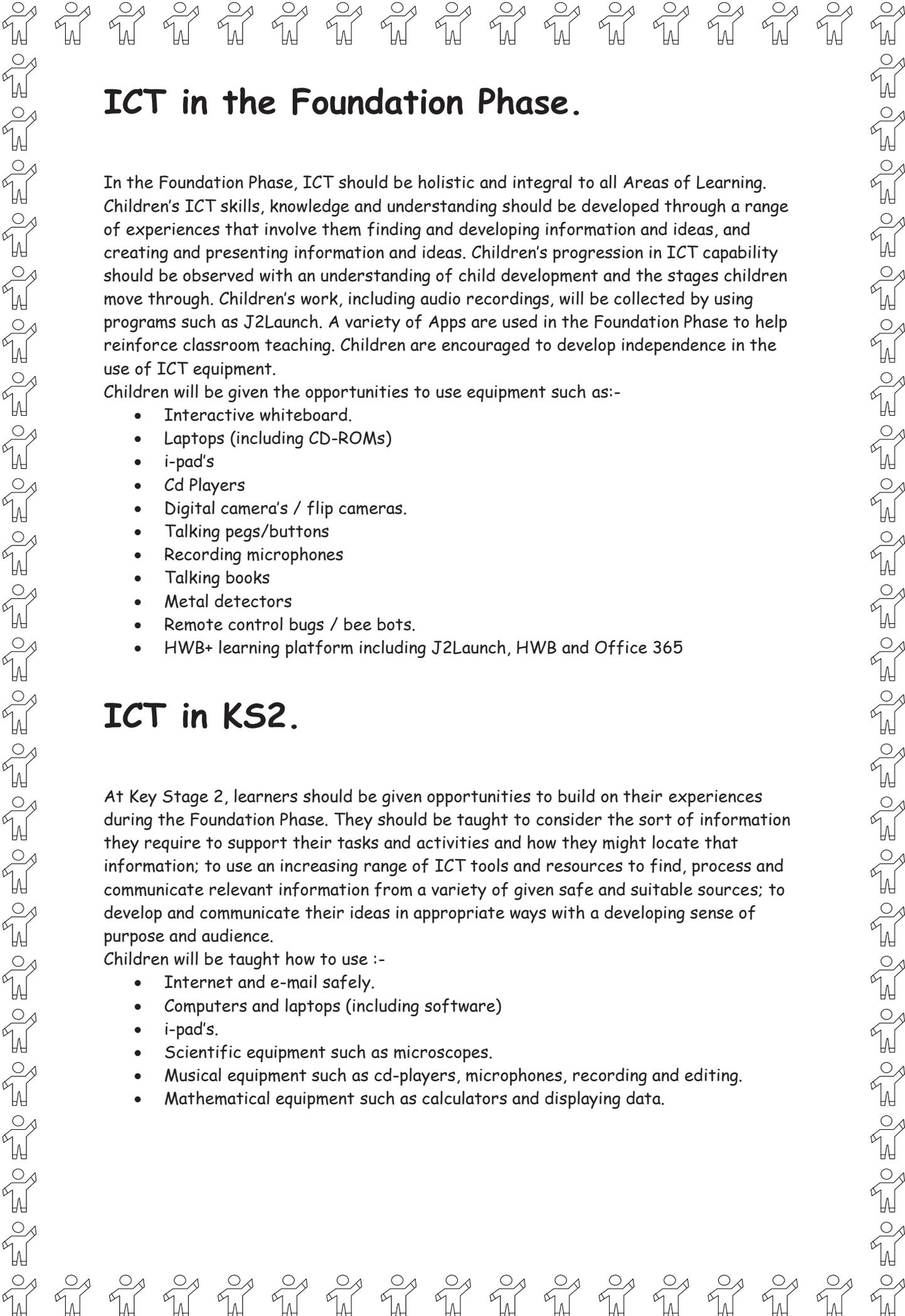
Skills:-

Find and analyse information

Pupils should be given opportunities to:

- discuss the purpose of their tasks, the intended audiences and the resources needed
- find information from a variety of sources for a defined purpose
- select suitable information and make simple judgements about sources of information
- produce and use databases to ask and answer questions, *e.g. search, sort and graph*
- produce and use models and/or simulations to ask and answer questions, *e.g. use a spread sheet to calculate and graph sales in a shop*
- investigate the effect of changing variables in models and/or simulations to ask and answer 'what if...?' type questions.

Create and communicate information

Pupils should be given opportunities to:

- create and communicate information in the form of text, images and sound, using a range of ICT hardware and software
- create a range of presentations combining a variety of information and media, *e.g. a poster combining text and graphics, a multimedia presentation*
- share and exchange information safely through electronic means, *e.g. use of e-mail, virtual learning environments.*

ICT in the Foundation Phase.

In the Foundation Phase, ICT should be holistic and integral to all Areas of Learning. Children's ICT skills, knowledge and understanding should be developed through a range of experiences that involve them finding and developing information and ideas, and creating and presenting information and ideas. Children's progression in ICT capability should be observed with an understanding of child development and the stages children move through. Children's work, including audio recordings, will be collected by using programs such as J2Launch. A variety of Apps are used in the Foundation Phase to help reinforce classroom teaching. Children are encouraged to develop independence in the use of ICT equipment.

Children will be given the opportunities to use equipment such as:-

- Interactive whiteboard.
- Laptops (including CD-ROMs)
- i-pad's
- Cd Players
- Digital camera's / flip cameras.
- Talking pegs/buttons
- Recording microphones
- Talking books
- Metal detectors
- Remote control bugs / bee bots.
- HWB+ learning platform including J2Launch, HWB and Office 365

ICT in KS2.

At Key Stage 2, learners should be given opportunities to build on their experiences during the Foundation Phase. They should be taught to consider the sort of information they require to support their tasks and activities and how they might locate that information; to use an increasing range of ICT tools and resources to find, process and communicate relevant information from a variety of given safe and suitable sources; to develop and communicate their ideas in appropriate ways with a developing sense of purpose and audience.

Children will be taught how to use :-

- Internet and e-mail safely.
- Computers and laptops (including software)
- i-pad's.
- Scientific equipment such as microscopes.
- Musical equipment such as cd-players, microphones, recording and editing.
- Mathematical equipment such as calculators and displaying data.
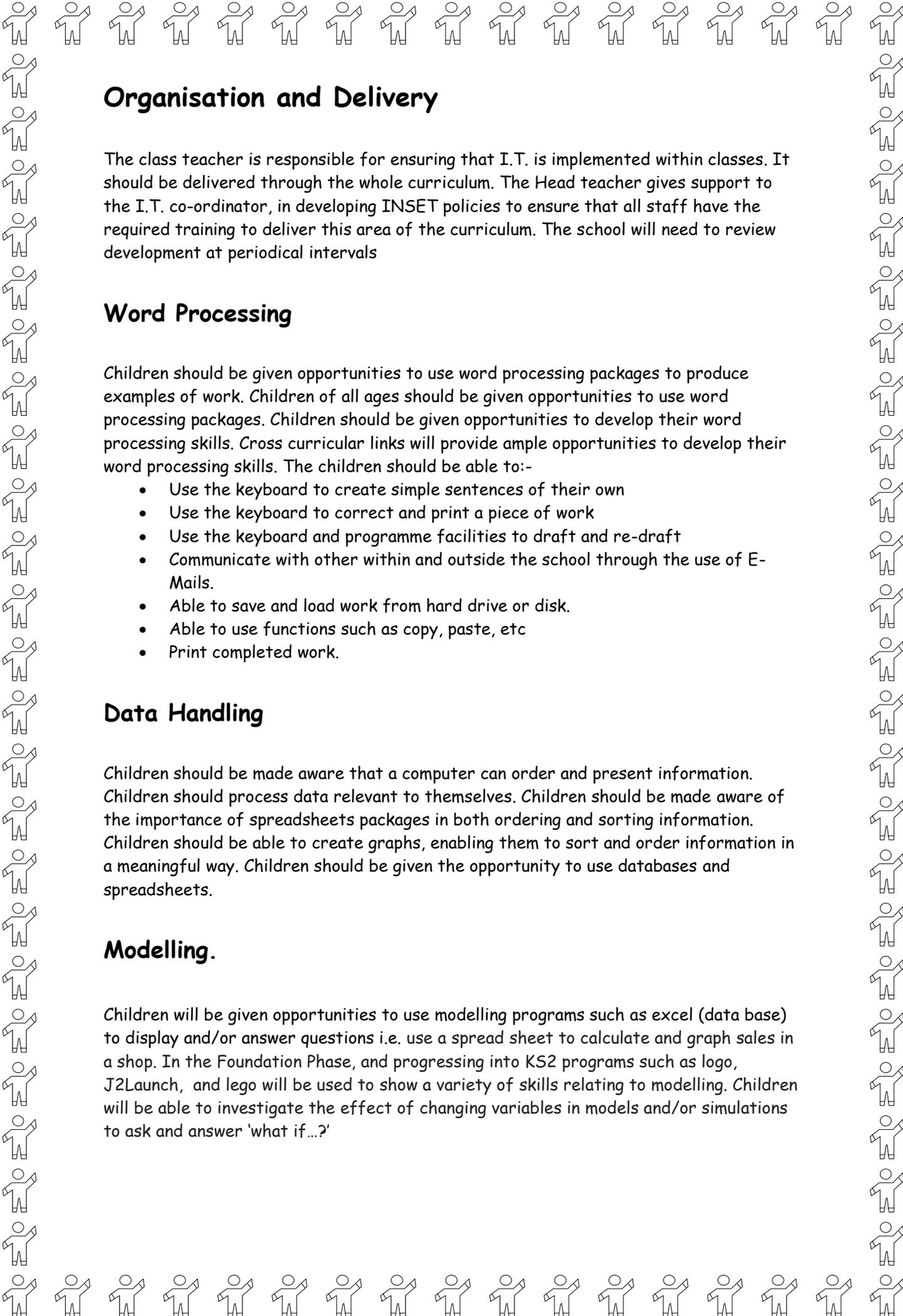
Organisation and Delivery

The class teacher is responsible for ensuring that I.T. is implemented within classes. It should be delivered through the whole curriculum. The Head teacher gives support to the I.T. co-ordinator, in developing INSET policies to ensure that all staff have the required training to deliver this area of the curriculum. The school will need to review development at periodical intervals

Word Processing

Children should be given opportunities to use word processing packages to produce examples of work. Children of all ages should be given opportunities to use word processing packages. Children should be given opportunities to develop their word processing skills. Cross curricular links will provide ample opportunities to develop their word processing skills. The children should be able to:-

- Use the keyboard to create simple sentences of their own
- Use the keyboard to correct and print a piece of work
- Use the keyboard and programme facilities to draft and re-draft
- Communicate with other within and outside the school through the use of E-Mails.
- Able to save and load work from hard drive or disk.
- Able to use functions such as copy, paste, etc
- Print completed work.

Data Handling

Children should be made aware that a computer can order and present information. Children should process data relevant to themselves. Children should be made aware of the importance of spreadsheets packages in both ordering and sorting information. Children should be able to create graphs, enabling them to sort and order information in a meaningful way. Children should be given the opportunity to use databases and spreadsheets.

Modelling.

Children will be given opportunities to use modelling programs such as excel (data base) to display and/or answer questions i.e. use a spread sheet to calculate and graph sales in a shop. In the Foundation Phase, and progressing into KS2 programs such as logo, J2Launch, and lego will be used to show a variety of skills relating to modelling. Children will be able to investigate the effect of changing variables in models and/or simulations to ask and answer 'what if…?'
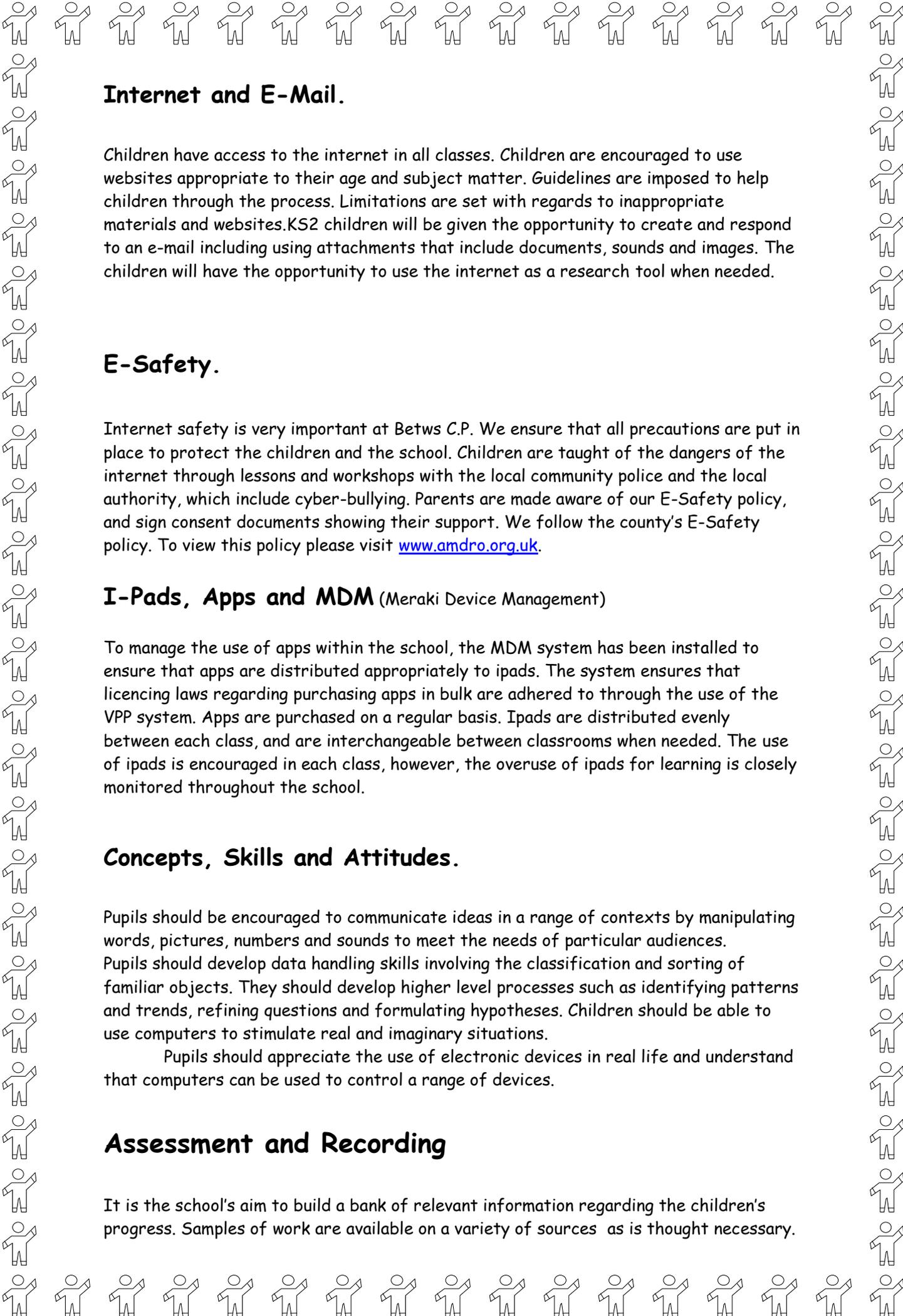
Internet and E-Mail.

Children have access to the internet in all classes. Children are encouraged to use websites appropriate to their age and subject matter. Guidelines are imposed to help children through the process. Limitations are set with regards to inappropriate materials and websites.KS2 children will be given the opportunity to create and respond to an e-mail including using attachments that include documents, sounds and images. The children will have the opportunity to use the internet as a research tool when needed.

E-Safety.

Internet safety is very important at Betws C.P. We ensure that all precautions are put in place to protect the children and the school. Children are taught of the dangers of the internet through lessons and workshops with the local community police and the local authority, which include cyber-bullying. Parents are made aware of our E-Safety policy, and sign consent documents showing their support. We follow the county's E-Safety policy. To view this policy please visit www.amdro.org.uk.

I-Pads, Apps and MDM (Meraki Device Management)

To manage the use of apps within the school, the MDM system has been installed to ensure that apps are distributed appropriately to ipads. The system ensures that licencing laws regarding purchasing apps in bulk are adhered to through the use of the VPP system. Apps are purchased on a regular basis. Ipads are distributed evenly between each class, and are interchangeable between classrooms when needed. The use of ipads is encouraged in each class, however, the overuse of ipads for learning is closely monitored throughout the school.

Concepts, Skills and Attitudes.

Pupils should be encouraged to communicate ideas in a range of contexts by manipulating words, pictures, numbers and sounds to meet the needs of particular audiences.
Pupils should develop data handling skills involving the classification and sorting of familiar objects. They should develop higher level processes such as identifying patterns and trends, refining questions and formulating hypotheses. Children should be able to use computers to stimulate real and imaginary situations.

Pupils should appreciate the use of electronic devices in real life and understand that computers can be used to control a range of devices.

Assessment and Recording

It is the school's aim to build a bank of relevant information regarding the children's progress. Samples of work are available on a variety of sources as is thought necessary.
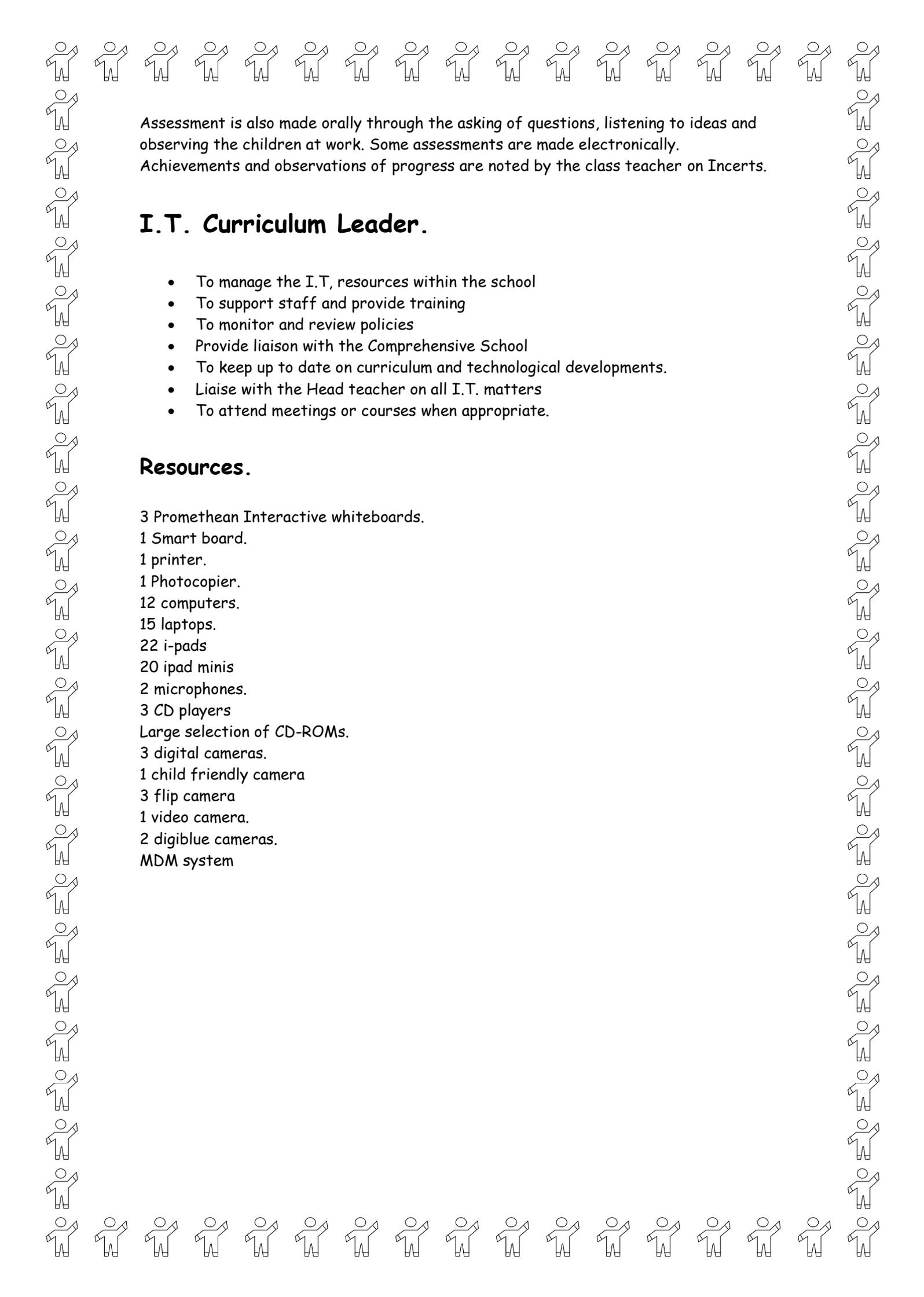
Assessment is also made orally through the asking of questions, listening to ideas and observing the children at work. Some assessments are made electronically. Achievements and observations of progress are noted by the class teacher on Incerts.

I.T. Curriculum Leader.

- To manage the I.T, resources within the school
- To support staff and provide training
- To monitor and review policies
- Provide liaison with the Comprehensive School
- To keep up to date on curriculum and technological developments.
- Liaise with the Head teacher on all I.T. matters
- To attend meetings or courses when appropriate.

Resources.

3 Promethean Interactive whiteboards.
1 Smart board.
1 printer.
1 Photocopier.
12 computers.
15 laptops.
22 i-pads
20 ipad minis
2 microphones.
3 CD players
Large selection of CD-ROMs.
3 digital cameras.
1 child friendly camera
3 flip camera
1 video camera.
2 digiblue cameras.
MDM system