Computing Skills and Knowledge
Expected by the End of Year __2_____

Generic Skills

- use appropriate ICT vocabulary
- know how to load programs independently
- know how to save work and retrieve work independently
- make simple modifications to their work (edit)
- practise keyboard skills using both hands
- have experience of a range of ICT equipment and software
- describe their work and how they have used ICT

Computer Science

Control and Programming

- control a programmable robot, with a purpose (defined by either teacher or child)
- understand that , once programmed, a programmable robot can repeat the same instructions
- plan and create a sequence of instructions to a move a programmable robot
- give instructions to a friend (using forward, backward and turn) and physically follow their instructions
- tell you the order needed to do things to make something happen and talk about this as an algorithm
- program a robot or software to do a particular task
- use programming software to make objects move
- watch a program execute and spot where it goes wrong in order to debug it

Digital Literacy

Research

- Know how to use the internet for research
- with support (Favourites file, hyperlinks set up by the teacher) use the Internet to find information for a topic

Data handling

- independently plot data as a pictogram, block chart or bar graph
- be aware that graph types can be changed
- interpret the graphs - discuss the graphs and answer simple questions
- use the search tools in a prepared database to answer simple questions

E-Safety

- agree and use sensible rules to keep safe when using technology
- know why it is important to be kind and polite online and in real life
- know that not all information online is true
- understand the need to keep passwords and personal information private
- identify some possible risks to devices
- identify similarities and differences between people I know and people I see in the media/online

Information Technology

Graphics and digital video

- be able to use an art package as an alternative medium
- use a digital camera or digital video camera to take appropriate pictures or video for a specific purpose
- add captions or sound to digital pictures or video
- with support, be able to do simple manipulation of images using an art package or other software e.g. the digital camera's software

Sound

- use sound buttons and microphones independently to record and playback sounds e.g. own voice, others voices
- know that sound can be recorded on the computer as a sound file
- use music software to experiment, create and play their own compositions
- with support, evaluate and modify (edit) their own compositions

Word Processing and email

- know that text can be saved and retrieved
- change the font style, size and colour
- print their work using the Print icon
- use the cursor (arrow) keys for simple on screen editing
- with support, import graphics and add text
- with support, write and send a short email e.g. to Santa

Multimedia

- with support, use a storyboard to do simple editing of a sequence of digital pictures or video e.g. change sequence, add transitions