Progression in Handling Data
Foundation Stage and Key Stage 1

POS statements Sept 2014	Foundation (EYFS expectation)	Year 1	Year 2
	• Select and use technology for different purposes.	• Store and retrieve data and know some ways in which information is represented digitally.	
Children understand concepts	• I can tell you about different kinds of information such as pictures, video, text and sound.	• I can talk about the different ways in which information can be shown. • I can use technology to collect information, including photos, video and sound. • I can sort different kinds of information and present it to others. • I can add information to a pictograph and talk to you about what I have found out.	• I talk about the different ways I use technology to collect information, including a camera, microscope or sound recorder. • I can make and save a chart or graph using the data I collect. • I can talk about the data that is shown in my chart or graph. • I am starting to understand a branching database. • I can tell you what kind of information I could use to help me investigate a question.
Teachers enable progress	• Provide opportunities for children to collect and sort objects and information. • Encourage children to take photographs of learning. • Work with groups of children to create and talk about pictograms.	• Model and provide opportunities for children to work independently to develop skills and build their confidence in using a pictogram program. • Talk about questions, different kinds of answers and ways to collect data. • Set the children tasks to collect information about themselves, generate graphs and charts and answer simple questions. • Provide equipment to capture learning: cameras, visualiser, iPad, other tablets, microscope, voice recorder and model how to save and retrieve the 'data' collected. • Provide opportunities for children to save and retrieve data and look at how it is presented digitally in different ways including seeing data represented on a screen from a data logger.	
Children build skills	• Collect information as photos or sound files. • Use a simple pictogram or set of photos to count and organise information.	• Contribute to and interpret a pictogram. • Take photographs, video and record sound to record learning experiences. • Look at how data is representing digitally.	• Ask questions and consider how they will collect information. • Collect data, generate graphs and charts to find answers. • Save and retrieve the data to show to others. • Create paper/object decision trees and explore a branching database. • Take and save photographs, video and record sound to capture learning. Use microscopes or other devices to capture and save magnified images. • Investigate different types of digital data e.g. online encyclopedias.

Suggested activities for children to develop process	Create a class pictogram using 2Count.	Use 2Count (Infant Video Toolkit), J2E Infant Tools, Textease or Creating Graphs app to create a simple pictogram.	Create graphs for specific purposes using 2Graph (Infant Video Toolkit) or Textease and save / retrieve and edit.
			Use Flexitree or Textease Branch to create a branching database.
	Look at information presented in different ways e.g. photos, sound, books, websites.	Explore a pictogram using TES iBoard Leisure Activity resource.	Use 2Investigate and Furbles to interrogate a set of data and order in different ways, asking questions about the way things are ordered.
		Create a pictogram using Pictograph and embed on a website or blog.	Explore the Naace Sorting Games to see how information can be sorted in different ways and talk about which ways were effective.
		Research animals and environments using Glossopedia and Alfa the Alien Somerset resource.	
	Use camera, tablets, sound recorder, visualiser, microscope to capture information and share for discussion.		