Year 1 Handling Data 1 Counting my information (Core)

Timing	Children will
Two activities over 4 sessions of approximately 45 minutes	• Use pictogram software to investigate a question and record data. eg Which materials are most popular nowadays and in the past? What is our favourite technology in the school? • Use Venn diagrams to sort appropriate clip art e.g. objects made of different materials. • Take photographs of items linked to their topic to sort as Venn diagram. • Talk about the information that has been sorted

e-safety links	Objectives
• I am careful with technology devices (R) • I talk about why it's important to be kind and polite	**Handling Data** • I can talk to you about the different ways in which information can be shown. • I can add information to a pictograph and talk to you about what I have found out. • I can sort different kinds of information and present it to others. • I can use technology to collect information, including photos, video and sound.

Links to other learning
Computing: Technology in our Lives 1
Science: sorting information/ data handling, Venn diagrams, materials.

Resources	Preparation
Pictogram software or app eg 2Count / PurpleMash, https://www.j2e.com/jit5#pictogram, http://primaryschoolict.com/pictograph **Presentation software or app** eg Textease, Powerpoint, Google Slides, Smartnotebook PicCollage/Skitch App Doodle Buddy App	• Identify the pictogram software to use with the children such as 2Simple 2Count (available for iPads within Purple Mash) **OR** https://www.j2e.com/jit5#pictogram (can be accessed on any device without cost but subscription required to save) to investigate a question and record data. The online pictograph maker by Primary School ICT can be used on any device and will also allow you to share the pictograph online. You can add your own items to both 2Count and the online pictograph maker so these can fit with any topic. • Create a personalised 2Count or other software pictogram for your topic or for technology around the school if this is not covered by the sets of images available in the software. See helpsheet. • Create a Venn Diagram on Textease, Smartnotebook, Powerpoint, Google Slides or using PicCollage/Skitch or Doodle Buddy app (Two intersecting circles). • Collect clipart of items linked to technology in the school or at home OR your current topic eg items in Victorian homes and homes today.

Expectations	Activity	Success Criteria
Handling data I can add information to a pictograph and talk to you about what I have found out. I can talk about the different ways in which information can be shown.	**Investigating materials (This session is written for houses and homes topic but could be based on the search for different technologies around the school in Technology in Our Lives 1 block)** • Children have been learning about materials in houses and homes (or use alternative information for the topic in your classroom). Talk to the children about a question they could ask e.g. What is the most common material today and in Victorian times? • Give the children time to physically sort objects made of different materials. Collect questions children use to sort the objects. • The children can use 2Count (or other software) pictograph on materials to show the materials found in a selection of household objects. They could do a pictograph for today's objects and some children could do a pictograph from a selection of Victorian objects or pictures. • Look at each of the pictographs created together. What is the same? What is different? • Discuss the information shown. What materials were used most in Victorian times? (metal, wood, china). What materials are used most nowadays (plastic). You could discuss natural/manmade materials, advantages/disadvantages. • Children can be given the two pictograms copied and pasted into presentation software such as Textease to annotate briefly using a word bank and the line tool. (Pic Collage or Doodle Buddy can be used on iPads – children take a photograph of the graph to annotate.) They can mark on the most popular materials now and in the past as shown by the charts. • Another activity/ extension could be to give children Venn diagrams in Textease, Powerpoint, Google slides or Smart Notebook or Pic Collage or Doodlebuddy. The children use clip art of house hold objects to put in the Venn diagram	Gold: Can I create a pictograph and Venn diagram from information provided and understand what it represents? Silver: Can I create a pictograph from information provided and understand what it represents? Bronze: Can I create a pictograph with support and understand what it represents?

		according to the materials they are made of e.g. plastic, wood, metal.	
2	**Handling Data** I can use technology to collect information I can sort different kinds of information and present it to others.	**Sorting information (This session is written for houses and homes topic but could be based on the photos taken in the search for different technologies around the school in Technology in Our Lives 1 block)** • Children use a digital camera or iPad to photograph household items around school eg in the kitchen - fridge, bowl, baking trays etc. They could take digital photos of homes around the village (bungalow, flats, cottages, houses). • Where a digital camera is used, teacher can save these into a folder or if using Textease into clipart. Children then sort the photos into groups (in circles) on according to material. Label groups. Discuss what they find out from the information. • **OR** children can add photos from the camera roll to Pic Collage or DoodleBuddy. • Do the same for Victorian artefacts- take photos and make a Venn diagram in Powerpoint / Google slides / Textease / Smartnotebook / Pic Collage App / Doodle Buddy App. • Discuss ways of presenting information - pictograph and Venn diagram. What can we find out from the pictogram? What can we find out from the Venn Diagram?	Gold: Can I create a Venn diagram from information collected digitally and understand what it represents? Silver: Can I sort pictures into groups and be able to discuss them? Bronze: Can I sort pictures into groups?