










Computing – Year 1



Spring 1	Grouping data					
Prior learning 						
Lesson objective 	To label objects	To identify that objects can be counted	To describe objects in different ways	To count objects with the same properties	To compare groups of objects	To answer questions about groups of objects
Key vocabulary 	Object, label, group, search, image	Group, object, label, image	Group, object, property, label, colour, size, shape	Group, object, property, value, label, colour, data set	Group, object, property, value, label, colour, size, shape, more, less, most, fewest	Group, object, property, value, label, colour, data set, more, less, most, least, fewest, the same
Creative context 	<p>The unit can be linked to familiar real-life contexts such as tidying toys, organising the classroom, or running a shop, helping pupils understand grouping, labelling, and counting. Pupils can be introduced to simple job roles (e.g. computer helper or sorter) to show that computers need humans to label, group, and count objects.</p> <p>Sorting express video - https://www.bbc.co.uk/cbeebies/watch/colourblocks-the-sorting-express</p> <p>Cookie monster sorting video - https://www.youtube.com/watch?v=ENFJUEMOXTc7</p> <p>BBC Bitesize - https://www.bbc.co.uk/bitesize/articles/zqhb46f</p>					
Substantive knowledge 	<p>know that objects can be described using labels.</p> <p>I know that objects with the same label can be grouped together.</p> <p>I know that groups of objects have a group label.</p> <p>I know that one object can belong to more than one group.</p>	<p>I know that objects can be counted.</p> <p>I know that objects can be grouped by what they are.</p> <p>I know that grouping objects can make counting easier.</p> <p>I know that computers need people to tell them how to count and group objects.</p>	<p>I know that objects can be described using properties.</p> <p>I know that a property is a way to describe an object, such as colour, size, or shape.</p> <p>I know that objects with the same properties can be grouped together.</p> <p>I know that computers use labels and properties to find images.</p>	<p>I know that objects have properties that can be used to group them.</p> <p>I know that objects with the same property can be grouped together.</p> <p>I know that the same objects can be grouped in different ways.</p> <p>I know that groups of objects can be counted</p>	<p>I know that objects can be grouped by different properties.</p> <p>I know that groups of objects can be compared.</p> <p>I know that groups can have more, fewer, or the same number of objects.</p> <p>I know that numbers can be used to describe and compare groups.</p>	<p>I know that objects can be grouped to help answer questions.</p> <p>I know that objects can be grouped in different ways depending on the question being asked.</p> <p>I know that groups can be compared to find answers.</p> <p>I know that grouping objects can make</p>

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						finding answers quicker and easier.
Disciplinary knowledge 	<p>I can name and label different objects.</p> <p>I can match objects to a group using their features.</p> <p>I can choose a suitable label for a group of objects.</p> <p>I can explain that an object might fit into more than one group.</p>	<p>I can count a small number of objects.</p> <p>I can group objects that are the same.</p> <p>I can count how many objects are in a group.</p> <p>I can explain that computers need human instructions to count.</p>	<p>can describe an object using different properties.</p> <p>I can identify a property of an object.</p> <p>I can find objects that have the same property.</p> <p>I can explain why objects and images need labels on a computer.</p>	<p>I can group objects that have the same property.</p> <p>I can group the same objects in more than one way.</p> <p>I can explain how I have grouped objects.</p> <p>I can count how many objects share a property.</p>	<p>I can choose how to group objects using their properties.</p> <p>I can describe groups of objects using comparison words.</p> <p>I can compare groups by saying which has more or fewer objects.</p> <p>I can record how many objects are in each group.</p>	<p>I can decide how to group objects to answer a question.</p> <p>I can compare groups of objects to find an answer.</p> <p>I can count objects in a group to help answer a question.</p> <p>I can record and share what I have found with others.</p>
Lesson outcome 	<p>Pupils will label objects and match them to groups to explore how items can be grouped in different ways</p>	<p>Pupils will group and count objects to find out how grouping helps to count more easily.</p>	<p>Pupils will describe objects using their properties and found items with similar features.</p>	<p>Pupils will group objects in different ways using their properties and counted how many were in each group.</p>	<p>Pupils will group objects in different ways, describe their groups using comparison language, and record how many objects are in each group.</p>	<p>Pupils will group objects in different ways to answer questions, compare groups, and share their findings with others.</p>
Unit outcome 	<p>Throughout the course of this unit, please take pictures of the activities completed to add to your floor book.</p> <p>At the end of the unit, could you please complete the unit evaluation, either as a self-assessment or teacher assessment. The slide is in the folder; Add the children’s names into the boxes that are the best fit.</p>					
Future learning 	<p>This unit will introduce learners to data and information. It will introduce learners to the concept of labelling and grouping objects based on their properties. Learners will develop their understanding that objects can be given labels, which is fundamental to their future learning concerning databases and spreadsheets. In addition, learners will begin to improve their ability to use dragging and dropping skills on a device. Following this unit, in year 2, learners will present data graphically in pictograms.</p>					