

Curriculum Objectives	Vocabulary				Links Across the Curriculum
<ul style="list-style-type: none"> Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Collect, classify and present data. 	technology	Solves a practical problem that	pictogram	A way to represent data using	Science—technology, the future, inventing things. Maths—presenting and analysing data
	data	Facts, figure or information that can be used to learn about something.	represent	A way of showing something.	
	tally	A total of points or votes scored.			

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. What is a tally chart?	Children to understand what data is and how data can be collected in a variety of ways. Children to collect data from the children in their class by using a tally chart to record the data. Children to explore a range of other tally charts and analyse the data accordingly.	Use tally charts in everyday life for a variety of purposes.
2. How can I use a tally chart to support me in representing data?	Children to understand that the use of a tally chart is for data collection. Children to understand that data can be represented in a variety of ways. Children to begin to understand what a pictogram is and how data can be represented through the use of pictures. Children to use the data and information from the tally chart to create a pictogram to represent the data.	Represent data using a pictogram in different subjects.
3. How can data be sorted in different ways?	Children are introduced to a variety of data collection and representation apps on digital devices. Children to collect data on a relevant topic and represent the data by sorting it into two or more categories. Children explain what they have done and what the data shows.	Sort data and information into more than one category.
4. How can I create a bar chart using a piece of software?	Children to use the data that they have previously collected to create a bar chart using specific software. Children to edit a bar chart and include the correct titles and numbers.	Create a bar chart in a range of other subjects to represent different data.
5. How can data be interpreted?	Children to learn to interpret and analyse a variety of pictograms. Children to understand how to find out information about the data provided and discuss what they have been able to find out.	Analyse data and make comparisons.

Themes		Diversity in the Curriculum
Computer Science	The study of computers and computer systems.	Famous Data Analysts from different cultures include: <ul style="list-style-type: none"> Randy Lao Kyle Mckiou Dean Abbott
Future technology	Understand that technological developments are happening daily and this is changing our world at a dramatic rate.	

Outcome	Character Traits	Stickability	WOW
Represent data by using a tally chart and creating a pictogram. Sort data into more than one category. Represent data by using a bar chart.	Curiosity Respectful	Digital Leaders Google Form Assessment	Using the J2Pictogram programme to create their pictogram.

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<ul style="list-style-type: none"> Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Collect, classify and present data. 	technology	Solves a practical problem that comes out of research in Science.	chart	A sheet that gives information in the form of a table or a graph.	Science—technology, the future, inventing things. Maths—presenting and analysing data
	data	Facts, figure or information that can be used to learn about something.	represent	A way of showing something.	
	tally	A total of points or votes scored.			

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. How can data be represented in different ways?	Children to review their learning on pictograms from Year 1. Children to discuss different ways of collecting data as well as representing data. Children to collect data in a tally chart.	Collect data by using a tally chart.
2. What is a block chart?	Children to begin to understand the differences between a pictogram and a block chart. Children to use block chart software to create a block chart from using the tally chart data collection. Children to label the chart with a title. Children to interpret the block chart and discuss what information can be deduced from it.	Create a block chart in a range of subjects.
3. How can I sort digital objects using a range of apps and software?	Children to become familiar with a range of charts including venn diagrams, carroll diagrams and bar charts. Children to explore the differences between the different types of chart. Children to collect data prior to creating their own chart by using a tally chart. Children to create their own block chart.	Create and analyse a range of different charts and data in a variety of subjects.

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Represent data by using a tally chart and creating a block chart. Sort data into more than one category. Represent data by using a block chart.	Curiosity Respectful	Digital Leaders Google Form Assessment	Using the J2Chart programme to create their pictogram.

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	data	Facts, figure or information that can be used to learn about something.	branch	A part or division of the main part	
	tally	A total of points or votes scored.	database	A large collection of information in a computer.	
	represent	A way of showing something.			

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. What is a branching database?	Children to begin to understand what a branching database is and how it can be used for a range of subjects and topics. Children to analyse a range of branching databases and discuss what they show. Children to plan a set of questions that could be used to create their own branching database in the next session.	Analyse and discuss a range of branching databases.
2. How can I create a branching database?	Children to understand how a branching database is created by asking a range of questions providing different options. Children to use their plan from the previous to create their branching databases using a suitable program.	Create a branching database.

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	data	Facts, figure or information that can be used to learn about something.	branch	A part or division of the main part of something.	
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	represent	A way of showing something.			

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. What types of data can a bar chart show?	Children to review their knowledge on block charts from their Data Handling learning in Year 2. Children to discuss what types of data could be shown in a bar chart. Children to select a suitable way to collect data amongst their class mates. Children to collect data and present in a suitable chart or table.	Collect data using a suitable method of representation.
2. How can I create a bar chart?	Children to use the data they have collected to create their own bar chart. Children to analyse and discuss their own bar chart and compare it with their peers.	Create a bar chart and use a bar chart for a variety of purposes in a range of subjects.

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Curriculum Objectives	Vocabulary				Links Across the Curriculum
<ul style="list-style-type: none"> Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Collect, classify and present data. Select use and combine a variety of software. 	technology	Solves a practical problem that comes out of research in Science.	questionnaire	A list of questions used for gathering information from people.	Science—technology, the future, inventing things. Maths—presenting and analysing data
	represent	A way of showing something.			

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. What is a questionnaire and what makes a good one?	Children to discuss and explore a range of questionnaires. Children to complete a range of questionnaires and decide on what makes an example of a good questionnaire.	Understand what a questionnaire is and how it can be used to collect data.
2. What types of questions do I need to ask when creating a questionnaire?	Children to learn about the range of different questions that can be asked in a questionnaire. Children to create a plan of questions that they can ask in their questionnaire.	Plan a set of questions that will provide in-depth data and results.
3. How can I create a questionnaire?	Children to use a suitable program to create their questionnaire and share it with others. Children to analyse the data that has been collected and discuss this with their peers. Children to represent the data received in an appropriate way.	Create a questionnaire using a suitable program. Analyse data and information from a questionnaire.

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	represent	A way of showing something.	statistics	Pieces of data or facts gathered in the form of numbers.	
	questionnaire	A list of questions used for gathering information from people.	function	To run or operate in a way that is desired.	
	spreadsheet	A table used to display data sets.			

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. What is a spreadsheet? How can data can be created using a spreadsheet?	Children to learn about spreadsheets and how data can be created and analysed within a spreadsheet. Children to explore and tinker with Google Sheets to form an understanding of how spreadsheets work and how they are created. Children to form an understanding of what spreadsheets might be used for in real-life.	Understand the use of spreadsheets.
2. What is a formula?	Children to learn what a formula is. Children to use a range of formula and tinker with a range of formula on a spreadsheet. Children to collect a range of data from their peers.	Create a formula and be able to use formulae in a range of subjects.
3. How can I edit and format different cells in a spreadsheet?	Children to use data to create their own spreadsheet. Children to analyse their own spreadsheets and discuss these with their peers.	Create a spreadsheet and use a spreadsheet for a range of purposes.

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