The Trinity CE Primary Academy

Computing Progression

Concept: Data and information

YR	Y1	Y2	Y3	Y4	Y5	Y6
-I can collect objects of different shapes and colours from my environment -I can use them to create a pictogram -I can suggest different ways of organising their objects. - I can spot any patterns or errors. -I can collect data from my peers e.g. favourite food. -I can begin to understand what this means.	-I can describe objects using labels - I can identify the label for a group of objects - I can match objects to groups - I can count a group of objects - I can count objects - I can group objects - I can describe an object - I can describe a property of an object - I can find objects with similar properties - I can count how many objects share a property - I can group objects in more than one way - I can group similar objects - I can choose how to group objects - I can describe groups of objects - I can record how many objects are in a group - I can compare groups of objects - I can decide how to group objects to answer a question	- I can compare totals in a tally chart - I can record data in a tally chart - I can represent a tally count as a total - I can enter data onto a computer - I can use a computer to view data in a different format - I can use pictograms to answer simple questions about objects - I can explain what the pictogram shows - I can organise data in a tally chart - I can use a tally chart to create a pictogram - I can answer 'more than'/'less than' and 'most/least' questions about an attribute - I can create a pictogram to arrange objects by an attribute - I can tally objects using a common attribute - I can choose a suitable attribute to compare people - I can collect the data I need	- I can create two groups of objects separated by one attribute - I can investigate questions with yes/no answers - I can make up a yes/no question about a collection of objects - I can arrange objects into a tree structure - I can create a group of objects within an existing group - I can select an attribute to separate objects into groups - I can group objects using my own yes/no questions - I can prove my branching database works - I can select objects to arrange in a branching database - I can compare two branching database structures - I can create yes/no questions using given attributes	- I can choose a data set to answer a given question - I can identify data that can be gathered over time - I can suggest questions that can be answered using a given data set - I can explain that sensors are input devices - I can identify that data from sensors can be recorded - I can use data from a sensor to answer a given question - I can identify a suitable place to collect data - I can identify the intervals used to collect data - I can talk about the data that I have captured - I can import a data set - I can use a computer program to sort data - I can use a computer to view data in different ways - I can plan how to collect data using a data logger	- I can create multiple questions about the same field - I can explain how information can be recorded - I can order, sort, and group my data cards - I can choose which field to sort data by to answer a given question - I can explain what a 'field' and a 'record' is in a database - I can navigate a flat-file database to compare different views of information - I can combine grouping and sorting to answer more specific questions - I can explain how information can be grouped - I can group information to answer questions - I can choose multiple criteria to answer a given question - I can choose which field and value are required to answer a given question	- I can answer questions from an existing data set - I can ask simple relevant questions which can be answered using data - I can explain the relevance of data headings - I can apply an appropriate number format to a cell - I can build a data set in a spreadsheet application - I can explain what an item of data is - I can construct a formula in a spreadsheet - I can explain the relevance of a cell's data type - I can identify that changing inputs changes outputs - I can apply a formula to multiple cells by duplicating it - I can create a formula which includes a range of cells - I can recognise that data can be calculated

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	- I can record and share what I have found	- I can create a pictogram and draw conclusions from it - I can give simple examples of why information should not be shared - I can share what I have found out using a computer - I can use a computer program to present information in different ways	- I can explain that questions need to be ordered carefully to split objects into similarly sized groups - I can create questions and apply them to a tree structure - I can select a theme and choose a variety of objects - I can use my branching database to answer questions - I can compare two ways of presenting information - I can explain what a branching database tells me - I can explain what a pictogram tells me	- I can propose a question that can be answered using logged data - I can use a data logger to collect data - I can draw conclusions from the data that I have collected - I can explain the benefits of using a data logger - I can interpret data that has been collected using a data logger	- I can outline how 'AND' and 'OR' can be used to refine data selection - I can explain the benefits of using a computer to create graphs - I can refine a chart by selecting a particular filter - I can select an appropriate chart to visually compare data - I can ask questions that will need more than one field to answer - I can present my findings to a group - I can refine a search in a real-world context	using different operations - I can apply a formula to calculate the data I need to answer questions - I can explain why data should be organised - I can use a spreadsheet to answer questions - I can produce a graph - I can suggest when to use a table or graph - I can use a graph to show the answer to questions