YEAR 3

	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Data and Information	**The three Prime ELGS of Communication and Language, PSED and Physical Development provide the foundations of which all other learning is built upon.** **No Specific ELG links.**	To be introduced to data and information and understand that labelling, grouping and searching are important aspects of data.	To begin to understand what the term 'data' means and how data can be collected in the form of a tally chart.	To develop understanding of what a 'branching database' is and how to create one.	To consider how and why data is collected over time. To collect and access data collated over a period of time, looking at data points, sets and logging intervals to review and analyse.	To look at how a flat-file database can be used to organise data in records. To create graphs and charts from data to help solve problems.	To organise data in columns and rows to create their own data set on a spreadsheet. To understand the importance of formatting data to support calculations. To learn how to apply formulas to a data set to produce calculated data.

COMPOSITES

Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems, and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information

Use technology safely, respectfully, and responsibly

COMPONENTS

	1	2	3	4	5	6	End Point
	Can I create questions with yes/no answers?	**How can I identify the object attributes needed to collect relevant data?**	**Can I create a branching database?**	**Can I explain why it is helpful for a database to be well structured**	**Can I identify objects using a branching database?**	**How can I compare the information shown in a pictogram with a branching database?**	**This unit progresses students' knowledge and understanding of presenting information. It builds on their knowledge of data and information from key stage 1. They continue to develop their understanding of attributes and begin to construct and interrogate branching databases as a means of displaying and retrieving information.**
CONCEPTS **Link to concept map**	Data and Information Information Technology	Data and Information Information Technology	Data and Information Information Technology	Data and Information Information Technology	Data and Information Information Technology	Data and Information Information Technology	Data and Information Information Technology

SKILLS	Investigate questions with yes/no answers Make up a yes/no question about a collection of objects Create two groups of objects separated by one attribute	Select an attribute to separate objects into groups Create a group of objects within an existing group Arrange objects into a tree structure	Select objects to arrange in a branching database Group objects using my own yes/no questions Prove my branching database works	Create yes/no questions using given attributes Compare two branching database structures	Select a theme and choose a variety of objects Create questions and apply them to a tree structure Use my branching database to answer questions	I can compare two ways of presenting information	Investigate and create questions. Select attributes to create a tree structure. Compare branching database.
KNOWLEDGE	To know what is an attribute.	To know what a tree structure is.	To know what a branching database is.	Explain that questions need to be ordered carefully to split objects into similarly sized groups	To apply my branching database knowledge to create a tree structure,	Explain what a pictogram tells me. Explain what a branching database tells me	To know what an attribute is in order to group objects. Gain an understanding into tree structure in order for you to apply those skills to create a branching database.
LESSON LINK	Data and information – Branching databases	Data and information – Branching databases	Data and information – Branching databases	Data and information – Branching databases	Data and information – Branching databases	Data and information – Branching databases	Data and information – Branching databases
PROGRESSIVE VOCABULARY	attribute, value, questions, table, objects	branching database, database, attribute, value, questions, objects, equal, even, separate	branching database, database, attribute, value, questions, objects	branching database, attribute, questions, structure, compare, order, organise	branching database, attribute, value, question, j2data, selecting	branching database, attribute, value, questions, j2data, pictogram, compare, information, decision tree	Children will be able to understand, articulate and use the vocabulary
CURRICULUM EXPERIENCES	Object hunt.						
END POINT	During this lesson, children will start to explore questions with yes or no answers, and how these can be used to	During this lesson, children will continue to develop their understanding of using questions with yes or no answers to group collections of	During this lesson, children will continue to develop their understanding of ordering objects/images in a branching database	During this lesson, children will continue to develop their understanding of how to create a well-structured database. They	During this lesson, children will independently create a branching database that will identify a given object.	During this lesson, the children will compare two ways of presenting information. They will demonstrate their ability to explain what information is shown in a pictogram and a branching database. The children will begin to	

	identify and compare objects. They will create their own yes or no questions before using these to split a collection of objects into groups.	objects. They will learn how to arrange objects in a tree structure and will continue to think about which attributes the questions are related to.	structure. They will learn how to use an online database tool to arrange objects into a branching database, and will create their own questions with yes or no answers. The children will show that their branching database works through testing.	will use attributes to create questions with yes or no answers and apply these to given objects. The children will be able to explain why questions need to be in a specific order and will compare the efficiency of different branching databases.	They will continue to think about the attributes of objects to write questions with a yes or no answer, which will enable them to separate a group of objects effectively. The children will then arrange the questions and objects into a tree structure, before using their branching database to answer questions.	compare the two ways of presenting information.	