

Computing

Year 3 and 4

Summer 1

Topic Data						
Rationale At Tilery we believe teaching data as part of the computing curriculum is essential to equip students with foundational skills for navigating an increasingly data-driven world.						
NC Objective 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						
Links to other Subject/Topics. Maths – Links to Statistics Science – Collating data from experiments.						
Note that E Safety, although it is taught as a topic in computing it will be referred to throughout each lesson where computing is used.						
Inspiration for Aspiration Teacher, Social Worker, Teaching Assistant, accountant, insurance broker, surveyor, engineer, technician						
Key Content Year 2 <ul style="list-style-type: none"> What information can an image give us? What is the pictograph showing me? How can I input data into a program? How can I arrange objects or pictures into lists or tables? How can I make a simple Y/N diagram to sort information? How to create and search a branching database? 	Year 3 Key Content <ul style="list-style-type: none"> What information should go into a data table? What information is relevant to the given topic? How can I design a questionnaire to collect information? 			Year 4 Key Content <ul style="list-style-type: none"> What information should go into a data table? What information is relevant to the given topic? How can I design a questionnaire to collect information? How can I sort and organize information to use in other ways? How can I create and search a branching database? How can I create a database from information I have selected? 		
Concepts						
Data	1	2	3	4	5	6
Skills and Knowledge Year 2 <ul style="list-style-type: none"> Pupils learn to create and use a pictogram 	Skills and Knowledge Year 3 <ul style="list-style-type: none"> 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 			Skills and Knowledge Year 4 <ul style="list-style-type: none"> 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
Vocab Year 2 Pictogram, Data, Table, Diagram, List, Tally Chart	Vocab Year 3 Data, table, information, chart, choose, suitable, questionnaire, collect, row, column, graph.	Vocab Year 4 Data, table, graph, row, column, organise, sort, database, information
By the end of the topic Year 2 children will: Be able to discuss the meaning of images in a pictograph and put this information into data program such as numbers. The children will also be able to sort objects into lists or make simple tables. They should also be able to make a simple Y/N tree diagram to sort information.	By the end of this topic Year 3 children will be able to: Decide which information is relevant and goes into a data table. Children will also know how to create a questionnaire in order to best produce results.	By the end of this topic Year 4 children will be able to: Decide which information is relevant and goes into a data table. Children will also know how to create a questionnaire in order to best produce results. Children will know how to sort and organise information to use in other ways. Children will know how to create and search a database from information they have selected.
Assessment Create a questionnaire to collect data and product a graph to present data. Teacher Judgment Example Children are to create a table in readiness to collect data from their class and be able to turn the information into an appropriate graph as well as being able to report their findings.		