

Computing
Year 5 and 6
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 (Year A) Maths – Links to statistics Science – Links to collecting data.			Links to other Subject/Topics (Year B) Maths – Links to statistics Science – Links to collecting data.			
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 , accountant, mathematician, insurance broker, mortgage broker,						
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? 		Key Content Year 5 <ul style="list-style-type: none"> • How can I create data collection forms and enter data accurately from these? • How can I make graphs from the calculations on my spreadsheet? • How can I sort and filter information in my tables or graphs? 		Year 6 Key Content <ul style="list-style-type: none"> • How can I check for inaccurate data and make changes accordingly? • Which formulas can I use when I want to change my spreadsheet model? • How does changing the numerical value change the calculation? 		
Concepts						
Data	1	2	3	4	5	6
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 		Skills and Knowledge Year 5 <ul style="list-style-type: none"> • Working with data: Pupils learn to search, sort and graph information • Pupils learn how to use a spreadsheet to model data 		Skills and Knowledge Year 6 <ul style="list-style-type: none"> • Working with data: Pupils learn to search, sort and graph information • Modelling: Pupils learn how to use a spreadsheet to model data 		

<p>Vocab Year 4 Data, table, graph, row, column, organise, sort, database, information</p>	<p>Vocab Year 5 Data Input Spreadsheet Interpreting Types of graph (line, bar, pie chart). Inaccurate. Sort Filter</p>	<p>Vocab Year 6 Data Input Spreadsheet Interpreting Types of graph (line, bar, pie chart). Inaccurate.</p>
<p>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.</p>	<p>By the end of this topic Year 5 children will be able to: Create data collection forms and enter data accurately into these forms. Children will be able to make graphs from the calculations on their spreadsheets. They will also know how to sort and filter information in their graphs.</p>	<p>By the end of the topic Year 6 children will: Be able to identify inaccurate data and make changes accordingly. They will be able to identify which formulas they can use when they want to change their spreadsheet. Children will be able to change numerical value in order to change calculations.</p>
<p>Assessment Children to collect, interpret and present data using a spreadsheet.</p> <p>Example Children could create a school survey using online websites for children to collect data. This would then be turned into graphs and presented to the whole school within an assembly.</p>		