

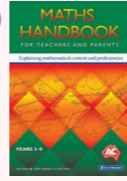
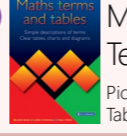
# DATA REPRESENTATION & INTERPRETATION

## CURRICULUM THREADS

Kindy	Pre-Primary	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
<b>THREAD 1</b> QUESTIONING, COLLECTING DATA	Answer yes/no questions to collect information ACMSP011	Choose simple questions and gather responses ACMSP262	Identify a question of interest based on one <b>categorical variable</b> . Gather <b>data</b> relevant to the question ACMSP048	Identify questions or issues for categorical variables. Identify <b>data</b> sources and plan methods of <b>data</b> collection and recording. ACMSP068	Select and trial methods for <b>data</b> collection, including survey questions and recording sheets ACMSP095	Pose questions and collect categorical or numerical data by observation or survey ACMSP118		
<b>THREAD 2</b> SORTING, DISPLAYING DATA		Represent data with objects and drawings where one object or drawing represents one data value. Describe the displays ACMSP263	Collect, check and classify <b>data</b> ACMSP049	Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs, with and without the use of digital technologies. ACMSP069	Construct suitable data displays, with and without the use of digital technologies, from given or collected data. Include tables, column graphs and picture graphs where one picture can represent many data values ACMSP096	Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies ACMSP119	Interpret and compare a range of data displays, including side-by-side column graphs for two categorical variables ACMSP147	
<b>THREAD 3</b> INTERPRET DATA			Create displays of data using lists, table and picture graphs and <b>interpret</b> them ACMSP050	Interpret displays of data (lists, table and picture graphs) ACMSP050	Interpret and compare data displays. ACMSP070	Evaluate the effectiveness of different displays in illustrating data features including variability ACMSP097	Describe and interpret different data sets in context ACMSP120	Interpret secondary data presented in digital media and elsewhere ACMSP148

### Suggested Dr Paul Swan Materials

● Book   
 ● Game   
 ● Downloadable   
 ● Video   
 ● Manipulative Material   
 ● Interactive Material   
 ● Other

			 <b>Maths Handbook</b> Types of data p. 128 Tables p. 125 Pictograph p.133 - 135	Bar/Column Graph p.135 - 136 Pictograph p.133 - 135	Bar/Column Graph p.135 - 136 Pictograph p.133 - 135	Dot Plot p.140	
			 <b>Maths Terms &amp; Tables</b> Pictograph p.95 Table p. 89	Bar/Column Graph p.91 Pictograph p.95	Bar/Column Graph p.91 Pictograph p.95	Dot Plot p.93	

### Other Helpful Sources

	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 2 pg 94	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 1 pg 84 Ch 4: KU 2 pg 94	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 1 pg 84 Ch 4: KU 2 pg 94	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 1 pg 84 Ch 4: KU 2 pg 94	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 1 pg 84    Ch 4: KU 3 pg 102 Ch 4: KU 2 pg 94	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 1 pg 84    Ch 4: KU 2 pg 94	<a href="#">First Steps: Chance &amp; Data</a> Ch 6: KU 1 pg 214    Ch 6: KU 3 pg 240 Ch 6: KU 2 pg 228
<a href="http://www.center.edu/NewsletterText/documents/Chapter8.pdf">Center for Innovation in Education Inc. Summary Newsletter</a>	<a href="#">First Steps: Chance &amp; Data</a> Ch 5: KU 1 pg 140    Ch 6: KU 1 pg 214 Ch 5: KU 4 pg 174    Ch 6: KU 4 pg 228	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 1 pg 84    Ch 5: KU 1 pg 140 Ch 4: KU 2 pg 94    Ch 5: KU 4 pg 174 Ch 4: KU 3 pg 102    Ch 5: KU 5 pg 182	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 1 pg 84    Ch 5: KU 1 pg 140 Ch 4: KU 2 pg 94    Ch 5: KU 4 pg 174 Ch 4: KU 3 pg 102    Ch 5: KU 5 pg 182	<a href="#">First Steps: Chance &amp; Data</a> Ch 4: KU 1 pg 84    Ch 5: KU 1 pg 140 Ch 4: KU 2 pg 94    Ch 5: KU 2 pg 158 Ch 4: KU 3 pg 102    Ch 5: KU 4 pg 174 Ch 5: KU 5 pg 182	<a href="#">First Steps: Chance &amp; Data</a> Ch 5: KU 1 pg 140    Ch 5: KU 4 pg 174 Ch 5: KU 2 pg 158    Ch 5: KU 5 pg 182 Ch 5: KU 3 pg 166	<a href="#">First Steps: Chance &amp; Data</a> Ch 5: KU 1 pg 140    Ch 5: KU 4 pg 174 Ch 5: KU 2 pg 158    Ch 5: KU 5 pg 182 Ch 5: KU 3 pg 166	<a href="#">First Steps: Chance &amp; Data</a> Ch 5: KU 1 pg 140    Ch 5: KU 4 pg 174 Ch 5: KU 2 pg 158    Ch 5: KU 5 pg 182 Ch 5: KU 3 pg 166
<a href="#">NZ Maths: Picture Books</a> <a href="https://nzmaths.co.nz/picture-books-statistics-content">https://nzmaths.co.nz/picture-books-statistics-content</a>	<a href="#">First Steps: Chance &amp; Data</a> Ch 6: KU 1 pg 214 Ch 6: KU 2 pg 228	<a href="#">First Steps: Chance &amp; Data</a> Ch 6: KU 1 pg 214 Ch 6: KU 2 pg 228	<a href="#">First Steps: Chance &amp; Data</a> Ch 6: KU 1 pg 214 Ch 6: KU 2 pg 228	<a href="#">First Steps: Chance &amp; Data</a> Ch 6: KU 1 pg 214    Ch 6: KU 3 pg 240 Ch 6: KU 2 pg 228	<a href="#">First Steps: Chance &amp; Data</a> Ch 6: KU 1 pg 214    Ch 6: KU 3 pg 240 Ch 6: KU 2 pg 228	<a href="#">First Steps: Chance &amp; Data</a> Ch 6: KU 1 pg 214    Ch 6: KU 3 pg 240 Ch 6: KU 2 pg 228	
<a href="https://illuminations.nctm.org/">NCTM Illuminations</a>	<a href="#">NZ Maths: Take This</a> <a href="https://nzmaths.co.nz/take">https://nzmaths.co.nz/take</a>	<a href="#">NZ Maths: Statistical Investigations Units of Work</a> <a href="https://nzmaths.co.nz/statistical-investigations-units-work">https://nzmaths.co.nz/statistical-investigations-units-work</a>	<a href="#">NZ Maths: Rich Learning Activities</a> <a href="https://nzmaths.co.nz/rich-learning-activities">https://nzmaths.co.nz/rich-learning-activities</a>				

