

## Mathematics Target Related Expectations (TreE)

	Pathway 1 (Target Grade 1-3)	Pathway 2 (Target Grade 4-6)	Pathway 3 (Target Grade 7-8)
<b>Data handling</b>	<b>1 Analysing and displaying data</b>	<b>1 Analysing and displaying data</b>	<b>1 Analysing and displaying data</b>
	Find information from tables and pictograms.	Find the mode of a set of data, numerical and non-numerical.	Identify sources of primary and secondary data.
	Find information from bar and bar-line charts.	Find the median of a set of data (odd and even number of values).	Choose a suitable sample size.
	Display data using bar and bar-line charts.	Find the range of a set of data.	Understand how to reduce bias sampling and questionnaires.
	Organise data using a tally chart.	Read and draw pictograms, bar charts and bar-line charts.	Identify a random sample.
	Understand and use frequency tables.	Read and construct tally charts and frequency tables.	Use two-way tables.
	Understand and draw a grouped bar chart.	Find the mode and range from a chart or table.	Interpret and draw dual bar charts and compound bar charts.
	Find the mode of a set of data.	Find the modal class from a bar chart or frequency table.	Choose the most appropriate average for a set of data.
	Find the modal class of a set of data.	Calculate the mean and range of a set of values.	Find the mode, median, mean and range for a set of data.
	Find the range and median of a set of data.	Compare two sets of data using an average and the range.	Compare sets of data using averages and the range.
	Compare sets of data using their range, mode and median	Read and draw a line graph, dual bar chart, compound bar chart.	Group discrete and continuous data.
	Calculate the mean of a set of data.		Draw and interpret grouped frequency diagrams, line graphs, scatter diagrams and pie charts
	<b>13 Statistics</b>	<b>6 Probability</b>	Recognise when a graph is misleading.
	Plan and collect data.	Use a probability scale with words.	Describe the correlation between two sets of data.
	Design a data collection sheet.	Calculate probability based on equally likely outcomes.	Draw a line of best fit and use it to estimate values.
	Group data into equal class intervals.	Calculate probability of A or B happening by counting outcomes.	<b>18 Probability</b>
	Interpret complex bar charts.	Calculate the probability of an event not happening.	Calculate and compare probabilities.
	Draw bar charts for more than one set of data.	Estimate probability based on experimental data.	Decide if a game is fair.
	Interpret pie charts.	Make conclusions based on the results of an experiment.	Identify mutually exclusive outcomes and events.
		Use probability to estimate the number of expected wins in a game.	Find the probabilities of mutually exclusive outcomes and events.
		<b>20 Statistics, graphs and charts</b>	Find the probability of an event not happening.
		Identify sources of primary and secondary data.	Calculate the relative frequency of a value.
		Calculate angles, draw and interpret a pie chart.	Use relative frequency to make estimates.
		Calculate the mean from a frequency table.	Use relative frequency to estimate the probability of an event.
		Interpret a steam and leaf diagram.	Use estimated probability to calculate expected frequencies.
		Compare data using averages and range, including mean calculated from a grouped frequency.	Carry out a probability experiment.

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	Pathway 1 (Target Grade 1-3)	Pathway 2 (Target Grade 4-6)	Pathway 3 (Target Grade 7-8)
		Decide on the most appropriate average to use.	Estimate probability using data from an experiment.
		Draw a scatter graph and describe types of correlation.	Work out the expected results when an experiment is repeated.
		Draw a line of best fit by eye on a scatter graph.	List all the possible outcomes of one or two events in sample space diagrams or Venn diagrams.
			Calculate probabilities of repeated events.
			Use tree diagrams to find the probabilities of two or more events.