

SA Mathematics R -10 Curriculum Objectives Addressed Within Numbers Up! 2 Baggin' the Dragon



Age	Level	SA Level	Exploring, Analysing & Modelling Data	Pattern & Algebraic Reasoning
4-6	1-2	R-1	<p>Sorts collections of objects using familiar criteria.</p> <p>Compares and describes objects according to similarities and differences.</p>	<p>Sorts a collection of objects.</p> <p>Copies and continues a simple pattern.</p> <p>Recognises that repetition is what makes a pattern.</p> <p>Recognises change over time.</p>
6-7	2-3	1-2	<p>Sorts collections of objects using less obvious criteria.</p> <p>Compares groups by matching to see which group has more.</p> <p>Represents data in appropriate ways.</p> <p>Investigates a variety of ways to organise data.</p> <p>interprets information.</p>	<p>Sorts and classifies by more than one criterion.</p> <p>Make predictions about linear or cyclic patterns.</p> <p>Identifies similarities and differences in patterns.</p> <p>Identifies the number in patterning.</p> <p>Uses number to represent patterns.</p> <p>Investigates different combinations of numbers that equal other combinations of numbers.</p> <p>Recognises and represents the same pattern in different forms.</p> <p>Identifies the repetitive unit.</p> <p>Describes change over time.</p>
7-8	3-4	2-3	<p>Sorts and organises objects using more than one criterion.</p> <p>Organises and interprets data to find answers to questions asked.</p> <p>Uses picture and/or bar graphs to represent data.</p> <p>Understands need for one-to-one correspondence and common baseline when making comparisons.</p> <p>Reads and interprets data from a variety of sources.</p> <p>Recognises key features</p>	<p>Sorts and classifies by a variety of criteria.</p> <p>Identifies, continues and constructs spatial and number patterns.</p> <p>Counts the number of objects in the repetitive unit of a pattern and uses addition and multiplication to investigate relationships.</p> <p>Continues and represents what comes next in a given numerical pattern.</p>

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			<p>of representations (labels, titles). Looks for and describes patterns in data to draw conclusions. understand the use of a tally system.</p>	
8	4	Year 3	<p>Uses tallying to collect data. Interprets bar, column, pie and picture graphs. Recognises and interprets scaled picture graphs.</p>	<p>Uses interval counting to show patterns. Recognises and uses number patterns. Investigates shape and measurement patterns. Completes simple number sentences by calculating the value of a missing digit.</p>
9	5	Year 4	<p>Interprets information from tables, and bar, column and picture graphs. Reads and interprets composite bar graphs. Reads, marks and joins co-ordinate points on a grid.</p>	<p>Uses interval counting. Investigates number patterns. Recognises patterns in a multiplication chart. Completes simple number sentences by calculating the value of a missing digit.</p>

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10	6	Year 5	<p>Interprets line, bar, column and composite graphs using a scale.</p> <p>Analyses and makes judgments based on statistical information and makes predictions and generalisations.</p>	<p>Uses interval counting.</p> <p>Investigates number patterns.</p> <p>Recognises patterns in a multiplication chart.</p> <p>Completes simple number sentences involving a mixture of the four operations.</p> <p>Calculates the value of symbols in a number sentence.</p>
11	7	Year 6	<p>Interprets data from simple tables.</p> <p>Calculates the average (mean) of a set of data.</p> <p>Describes the likelihood of events in everyday situations using appropriate mathematical terminology.</p>	<p>Calculates the value of a missing number in a series of values.</p> <p>Completes the pattern for a numerical series.</p> <p>Explains how the answers in a series of values were determined.</p> <p>Describes the pattern formed when a graph is drawn from a table of values.</p>
12	8	Year 7	<p>Finds the mean, median and mode from given data.</p> <p>Interprets information from data, graphs and tables.</p> <p>Recognises the difference between a random sample and a biased sample.</p> <p>Assigns numbers to chance.</p> <p>Writes formulas to determine probability.</p>	<p>Investigates and analyses graphs showing the relationship between variables.</p> <p>Use inverse operations to solve a number sentence.</p>

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13-14	9+	Year 8	Classifies data as discrete or continuous. Assigns probabilities for given situations.	<p>Writes a rule using pronumerals to describe a pattern.</p> <p>Substitutes numbers for pronumerals into a formula.</p> <p>Collects like terms in expressions with 1 or 2 pronumerals.</p> <p>Uses index notation.</p> <p>Evaluates an algebraic expression by substituting numbers for unknowns.</p> <p>Use the distributive law to expand brackets and simplify.</p> <p>Solves linear equations involving 2 or more operations.</p>