

## NSW Mathematics K -10 Curriculum Objectives Addressed Within Numbers Up! 2 Baggin' the Dragon



Age	Level	NSW Level	Patterns & Algebra	Data	Number
4-7	1-2	Early Stage 1	PAES1.1 Recognises, describes, creates and continues repeating patterns and number patterns that increase or decrease.	DES1.1 Represents and interprets data displays made from objects and pictures.	
8 - 10	3-5	Stage 1	PAS1.1 Creates, represents and continues a variety of number patterns, supplies missing elements in a pattern and builds number relationships.	DS1.1 Organises data, interprets data displayed using column and picture graphs.	
10-11	5-6	Stage 2	PAS2.1 Generates, describes and records number patterns using a variety of strategies and completes number sentences by calculating missing values.	DS2.1 Organises data, interprets data displayed using tables and graphs.	
12	6-7	Stage 3	PAS3.1a Records, analyses and describes geometric and number patterns that involve one operation using tables and words. PAS3.1b Constructs, verifies and completes number sentences involving the four operations with a variety of numbers.	DS3.1 Displays and interprets data in graphs with scales of many-to-one correspondence.	

## NSW Mathematics K -10 Curriculum Objectives Addressed Within Numbers Up! 2 Baggin' the Dragon



Age	Level	NSW Level	Patterns & Algebra	Data	Number
13-14	7-9	Stage 4	<p>PAS4.1 Uses letters to represent numbers and translates between words and algebraic symbols.</p> <p>PAS4.2 Creates, records analyses and generalises number patterns using words and algebraic symbols in a variety of ways.</p> <p>PAS4.3 Uses the algebraic symbol system to simplify, expand and factorise simple algebraic expressions.</p> <p>PAS4.4 Uses algebraic techniques to solve linear equations.</p> <p>PAS4.5 Interprets linear relationships on the number plane.</p>	<p>DS4.1 Reads and interprets graphs, charts and statistical information.</p> <p>DS4.2 Analyses data using measures of location and range.</p>	NS4.4 Solves probability problems involving simple events
15	10-11	Stage 5	<p>PAS5.1.1 Applies the index laws to simplify algebraic expressions.</p> <p>PAS5.1.2 Determines the midpoint, length and gradient of an interval joining two points on the number plane and graphs linear and simple non-linear relationships from equations.</p> <p>PAS5.2.1 Simplifies, expands and factorises algebraic expressions involving</p>	<p>DS5.1.1 Groups data to aid analysis, interprets frequency and cumulative frequency tables and graphs.</p>	NS5.1.3 Determines relative frequencies and theoretical probabilities

## NSW Mathematics K -10 Curriculum Objectives Addressed Within Numbers Up! 2 Baggin' the Dragon



Age	Level	NSW Level	Patterns & Algebra	Data	Number
			<p>fractions and negative and fractional indices. PAS5.2.2 Solves linear and simple quadratic equations and solves simple simultaneous equations using graphical and analytical methods. PAS5.2.3 Uses formulae to find midpoint, distance and gradient and applies the gradient-intercept form to interpret straight lines. PAS5.2.4 Interprets graphs including simple parabolas and hyperbolas. PAS5.2.5 Interprets graphs of physical phenomena. PAS5.3.1 Uses algebraic techniques to simplify expressions, expand binomial products and factorise quadratic expressions. PAS5.3.2 Solves linear, quadratic and simultaneous equations. PAS5.3.3 Uses various standard forms of the equation of a straight line and graphs regions on the number plane. PAS5.3.4 Interprets a variety of graphs including</p>		

# NSW Mathematics K -10 Curriculum Objectives Addressed Within Numbers Up! 2 Baggin' the Dragon



Age	Level	NSW Level	Patterns & Algebra	Data	Number
			parabolas and applies co-ordinate geometry techniques to solve problems. PAS5.3.5 Analyses and describes graphs of physical phenomena.		