

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



Age	Level	NT Level	Algebra	Chance & Data
4-6	1-2	Level 1	Algebra outcomes are not reported on at this level although important 'pre-algebra' skills and concepts are developed and reported on in the Number strand NB These concepts are addressed within both Numbers Up! Volcanic Panic (the Number strand) and Numbers Up! Baggin' the Dragon (Patterns and Reasoning)	Students classify and sequence objects or pictures. They display data with objects and pictures and describe this information in words and numbers.
7-8	3-4	Level 2	Algebra outcomes are not reported on at this level although important 'pre-algebra' skills and concepts are developed and reported on in the Number strand NB These concepts are addressed within both Numbers Up! Volcanic Panic (the Number strand) and Numbers Up! Baggin' the Dragon (Patterns and Reasoning)	Students use a variety of ways to summarise and explain data, and to describe data collections.
9-10	5-6	Level 3	Algebra outcomes are not reported on at this level although important 'pre-algebra' skills and concepts are developed and reported on in the Number strand NB These concepts are addressed within both Numbers Up! Volcanic Panic (the Number strand) and Numbers Up! Baggin' the Dragon (Patterns and Reasoning)	Students collect, organise and display data based on the context of the investigation. They interpret a range of data presentations.

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10-11	6-7	Level 4	Algebra outcomes are not reported on at this level although important 'pre-algebra' skills and concepts are developed and reported on in the Number strand NB These concepts are addressed within both Numbers Up! Volcanic Panic (the Number strand) and Numbers Up! Baggin' the Dragon (Patterns and Reasoning)	Students put events in order of likelihood. They calculate simple summary statistics. They group data and interpret diagrams, tables and bar graphs. they investigate a wide range of practical problems not obviously mathematical.
11-12	7-8	Level 5	Students produce and apply rules describing how two quantities are related and express them in simple language and begin to use shortened forms of the rule. They find a number or numbers that satisfy constraints expressed in natural language and interpret and draw sketch graphs relating two quantities.	Students understand that probability statements give a measure of how likely something is to happen, and express probability using fractions and decimals. They read a variety of tables and diagrams.
12-13	8-9	Level 6	Students apply the basic conventions of algebra to summarise rules, to manipulate linear expressions and to write symbolic equations. They recognise graphs of algebraic relationships. They distinguish linear from square relationships, recognising these and other types of relationships between variables in tables, symbolic expressions and graphs.	Students use systematic strategies to work out probabilities. They use data to assign probabilities for one- and two-stage events. They interpret and draw conclusions from data.

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Age	Level	NT Level	Algebra	Chance & Data
13-14	9-10	Level 7	<p>Students use algebraic notation to represent polynomial expressions. They manipulate expressions independently of their context, and are fluent in manipulating products and factorising for simplification purposes. They recognise and sketch families of functions in tables and graphs. They formulate and solve equations related to these functions.</p>	<p>Students decide when a sample is adequate. They take notice of sample size when making generalisations. They complete analyses of situations from data sets, and make sensible statements about data presentation and summary statistics.</p>
14-15	10-11	Level 8	<p>Students identify algebraic form or structure in mathematical situations and move readily between the general case and specific instances. They can express variables algebraically to explain general relationships.</p>	