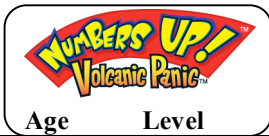
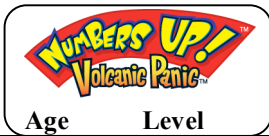


# NT Mathematics K-9 Curriculum Objectives Addressed Within Numbers Up! Volcanic Panic



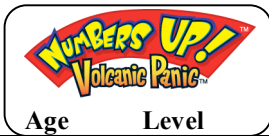
Age	Level	NT Level	Number		
4-6	1-5	Level 1	<p><b>Students count and use number to order things.</b></p> <p>Students count and estimate collections Order two or more collections. Order things within a collection. Can add and subtract numbers which occur in context. Can use counting and other strategies to mentally solve questions.</p>		
6-8	6-9	Level 2	<p><b>Students count numbers with at least 2 digits and estimate collections up to a size of 20 and beyond within everyday experience. They understand the everyday fractions of 1. They understand addition and subtraction. They subtract 2 digit numbers using a variety of methods. They have a basic understanding of multiplication and division.</b></p>		

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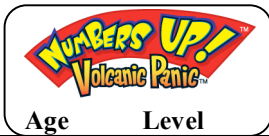
Age	Level	NT Level	Number		
9 - 10	10-14	Level 3	<p>Can count with at least 2 digits.            Can understand fractions one-half, one-third and one-quarter and can divide objects and collections into these.            Can use addition and subtraction strategies to solve story problems.            Can use a variety of strategies, including regrouping, to assist in adding and subtracting whole numbers which cannot be completed mentally.</p> <p><b><i>Students work with large whole numbers and extended number patterns. They apply fractional and decimal quantities, choosing the appropriate operation when dealing with everyday situations. They remember and apply mentally basic addition facts up to 10 + 10. They remember many basic multiplication facts and can use</i></b></p>		

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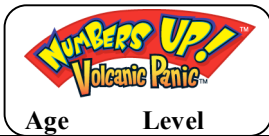
Age	Level	NT Level	Number		
			<p><b>mental methods.</b> <b>They link multiplication and division.</b></p> <p>Count, order, estimate and describe using whole numbers, fractions and decimals.</p> <p>Recognise patterns based on addition and subtraction of whole numbers.</p> <p>Decide whether to add, subtract, multiply or divide when dealing with everyday problems.</p> <p>Estimates and calculates mentally, including adding (sum to 100) and subtracting 2 digit numbers and multiplying numbers to 10.</p> <p>Estimate sums and differences</p> <p>Show the relationship between multiplication and division.</p> <p>Multiply and divide whole numbers by whole numbers to 10.</p>		

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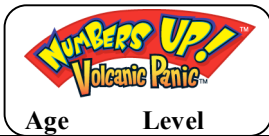
Age	Level	NT Level	Number
10 - 11	15 - 19	Level 4	<p><b>Students use common fractions and order decimals with equal numbers of decimal places. They investigate number patterns and solve simple number puzzles. They understand multiplication. They recall and apply all four operations with whole numbers mentally. They add and subtract numbers with equal decimal places and multiply and divide whole numbers and decimals by single digit numbers.</b></p> <p>Read and make sense of common fractions. Place decimals with equal numbers of places in order. Connect multiplication with the idea of scale. Select and use each of the four operations in a wide range of practical situations. Know the basic addition and</p>

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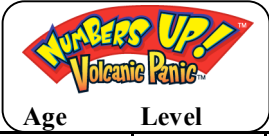
Age	Level	NT Level	Number		
11 - 12	20 - 22	Level 5	<p>multiplication facts and use them to state related subtraction and division facts. Devise strategies for mentally adding and subtracting most two-digit numbers and multiplying and dividing one-digit multiples of ten by one-digit numbers. Add and subtract numbers having equal decimal places. Multiply and divide whole numbers and decimals by single digit numbers.</p> <p><b><i>Students move easily between various ways of representing numbers and quantities. They order decimals with unequal numbers of places and read scales involving decimals. They understand multiplication and division. They use a range of mental strategies for operations on whole numbers and common and decimal fractions. They use</i></b></p>		

# NT Mathematics K-9 Curriculum Objectives Addressed Within Numbers Up! Volcanic Panic



Age	Level	NT Level	Number		
			<p><b>estimation skills when appropriate.</b></p> <p>Interpret and use whole powers and square roots and straightforward ratios and percentages. Generate numbers or number pairs that satisfy and single constraint stated in natural language. Estimates and calculates mentally with whole numbers, money and simple fractions, including multiplying and dividing some two-digit numbers by one digit numbers</p>		
12 - 14	23 - 26	Level 6	<p><b>Students interpret whole powers, roots and scientific notation. They use negative numbers and ratios to describe the relationship between quantities. They apply number patterns and the relationships between number. They use common fractions and percentages to make estimates. They know common</b></p>		

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Age	Level	NT Level	Number		
			<p><b><i>equivalence and can use these to calculate or estimate percentages mentally.</i></b></p>		