## Content – Y9 Maths Puzzle Book 1

	Maths topic	Question / story
1.1	Adding Whole Numbers	The First Hawaikian Who Reached
		Aotearoa
1.2	Subtracting Whole Numbers	The First Māori Woman Who Spotted
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Aotearoa
1.3	Multiplying whole numbers	Aotea's First Tiheru (Bailing Scoop)
1.4	Dividing Whole Numbers	Prayers for Avoiding Aituā (Bad Luck)
1.5	Rounding and Estimation	The Name of the Te Arawa's Navigator
1.6	Powers and Roots	The Name of the Great Hawaikian
1.0	Towers and Roots	Toolmaker
1.7	Order of Operation -	The Name of the Chiefly Headgear
1.7	BEDMAS	The Name of the Chieffy Headgear
1.8	Factors, Highest Common	The Meaning of Te Arawa
1.0	Factors (HCF)	The Weaking of Te Arawa
1.9	Multiples, Lowest Common	Te Arawa's Landing in Aotearoa
1.7	Multiples (LCM)	Te Arawa S Landing in Adicarda
1.10	Prime Numbers	Dukoataa Wajnui's Landing Dlaga
		Pukeatea Wainui's Landing Place
1.11	Word Problems – Whole	A Religious Ceremony to Protect Wahine
1.10	Numbers	A Cool Lining and Fishing Disc.
1.12	Revision – Whole Numbers	A Good Living and Fishing Place
2.1	Comparing Integers	Moehau
2.2	Adding Integers	Ngatoro Climbs a Mountain Near Lake
		Taupo
2.3	Subtracting Integers	What People Say When There is a
		Shortage of Food
2.4	Adding / Subtracting more	What Tainui Found at Muri Whenua (the
	than two Integers	North Cape)
2.5	Multiplying Integers	The Meaning of Rangitoto
2.6	Dividing Integers	Who Freed Tainui?
2.7	Multiplying and Dividing	The Meaning of Kaitaia
	more than two Integers	
2.8	Order of Operations with	Mahurangi
	Integers - BEDMAS	
2.9	Using a Calculator with	The Meaning of Takapuna
	Integers	
2.10	Powers and Roots of	Moe-kakara waka's ati (descendants)
	Integers	
2.11	Word Problems with	The Meaning of Moehau (Colville)
	Integers	
2.12	Revision on Integers	The Name of the Mātaatua Waka
		Rangatira
3.1	Geometrical Representation	A Punishment for Being Disrespectful
	of Fractions	and Rude
3.2	Proper and Improper	Tuanui Survives
	Fractions, Mixed Numbers	
3.3	Simplifying Fractions	The First Māori Boy Born in Aotearoa
3.4	Equivalent Fractions	The Landing Place of the Aotea
3.5	Comparing Fractions	The Moekau River
3.6	Adding and Subtracting	The Waitara River
	Fractions	
3.7	Multiplying Fractions	The Name of the Red Cloak
3.8	Dividing Fractions	The Meaning of Oakura
5.0		The meaning of Oakura

3.9	Unitary Method with	Ka Pātea Tatau
	Fractions	
3.10	Square Roots of Fractions	The First Māori Pā (Fortified Village)
3.11	Working with Mixed	The First Tūāhu
	Numbers	
3.12	<b>BEDMAS</b> with Fractions	The First Māori Whāre Ever Built in
		Aotearoa
3.13	Word Problems Involving	The First Well Dug in Aotearoa
	Fractions	
3.14	Revision on Fractions – Test	The First Māori Pātaka (storehouse)
	Your Understanding of	
4.1	Fractions	
4.1	Conversion Between	The First Whare Pāku (Toilet)
4.0	Fractions and Decimals	
4.2	Comparing Decimals	The Chant to Promote the Growth of
1.2	Adding and California	Kūmara Plants The First Kūmara Harvest in Aotearoa
4.3	Adding and Subtracting Decimals	The First Kumara Harvest in Aotearoa
4.4	Multiplying and Dividing	Turi's Descendants
	Decimals by Powers of 10	Turr's Descendants
4.5	Multiplying Decimals	Other Descendants of Turi
4.6	Dividing Decimals	The First Sharp Adze Made From
	6	Pounamu
4.7	Rounding Decimals	The Second Sharp Adze Made From
	C	Pounamu
4.8	Terminating and Recurring	The First Pounamu Ear Drop Pendant
	Decimals	
4.9	Using a Calculator with	The Tragic Fate of the Owner of the First
	Decimals	Ear Drop Pendant
4.10	Word Problems with	Tainui's Rangatira
	Decimals	
4.11	Revision on Decimals	When did Te Arawa Reach Aotearoa?
5.1	Converting Percentages into	The Meaning of Whakatane
5.2	Fractions	The Manual Advantage of the City dead in the
3.2	Converting percentages into decimals	The Māori Name of the City that is the First to See the Sunrise
5.3	Converting Fractions and	The Meaning of the Name of Tongariro
5.5	Decimals into Percentages	The forcaming of the Maine of Toligatillo
5.4	One Quantity as a	The Name of the Landing Place of the
	Percentage of Another	Waka Ruakaramea
5.5	Finding Percentages of	The Waka Builder
	Quantities	
5.6	The Unitary Method in	Kupe's Daughters
	Percentages	
5.7	Increasing and Decreasing	Kupe's Grief
	Quantities by the Given	
	Percentage	
5.8	Finding percentage changes	E Hoki Kupe?
5.0	(Increase and Decrease)	
5.9	Profit and Loss as a	Quarrels in Hawaiki
5 10	Percentage	The Han ( Deven ce) Fee K202 and Dec
5.10	Discounts	The Utu ( Revenge) For Killing a Dog
1		

5.11	Goods and Services Tax	The Name of the Brother Who Escaped
5.11	(GST)	The Maine of the Diviner who Escaped
5.12	Simple Interest	The Name of the Brother the Whānau Seized
5.13	Word Problems on	Punishment For Stealing the High Chief's
	Percentages	Fruit
5.14	Revision on Percentages	Discovery of the Moa
6.1	Equivalent Ratios.	Protection Against an Enemy's Secret
()	Simplifying Ratios	Powers
6.2 6.3	Proportions	Hokowhitu The First Fish
0.3	Using Ratios to Divide Quantities	The First Fish
6.4	Scale Diagrams and Ratios	The Brother Who Was Badly Wounded
6.5	Word Problems Involving	Farewell Words 1
0.5	Ratios and Proportions	rarewen words i
7.1	Algebraic Expressions	The First Toki that Hewed the Largest
, • •	- Beerine Expressions	Waka Hourua
7.2	Multiplying Algebraic	The Second Toki that Hewed the Waka
	Expressions	Te Arawa
7.3	Adding / Subtracting	Farewell Words 2
	Algebraic Expressions	
7.4	Multiplying and Dividing	Farewell Words 3
	Expressions with Indices	
7.5	Substitution into Algebraic	The Whirlpool From Which No Waka Returns
	Expressions (One Positive Value)	
7.6	Substitution into Algebraic	Te Arawa's Anthem
	Expressions (One Negative	
	Value)	D
7.7	Substitution (More Than One Value)	Pungawere
7.8	Expanding Brackets	Finders Keepers?
7.9	Expanding and Simplifying	The Second Waka Built at the Same Time as Te Arawa
7.10	Factorising	The Third Waka Built at the Same Time as Te Arawa
7.11	Revision – Algebraic Expressions	The Fourth Waka Built at the Same Time as Te Arawa
8.1	Solving One-Step Linear Equations	The Lake
8.2	Solving Two-Step Linear Equations	Canoe Builder's Youngest Daughter
8.3	Solving Linear Equations Involving More than Two Steps	The Canoe Builder's Older Daughter
8.4	Solving Linear Equations with the	The Māori Navigator Who Sailed with Kupe
07	Unknown on Both Sides	
8.5	Forming Equations from Word Problems	What Kupe Saw in Aotearoa
8.6	Solving Problems by Forming and Solving Equations	Te Rangatira
8.7	Sequences	Direction to Aotearoa
8.8	Finding the Formula of a Linear	Aotea's first Hiwa
	Pattern	

8.9	Patterns with Diagrams	Aotea's second Hiwa
9.1	Compass Bearings	The Landing Place of Te Ririno and Aotea
9.2	True Bearings	The Saying About Someone Who is Stubborn
9.3	Coordinates (Non-negative	How did Tainui Overtake Te Arawa?
	values)	
9.4	Plotting Points Using	A Bird Taller Than a Man
	Co-ordinates 1	
9.5	Plotting Points Using	The First Settlers' Waka
	Co-ordinates 2	
9.6	The Cartesian plane (Integers)	Why the Place is Called Whangaparāoa?
9.7	Drawing Line Graphs from a	Te Arawa Heading to the West
	Table	
9.8	Travel Graph	Tauranga
9.9	Linear graphs 1	Te Arawa's Resting Place
9.10	Linear graphs 2	Tama Te Kapua Was Not Eating Well
9.11	Linear graphs 3	The Place Where Tama Te Kapua Died
9.12	Linear graphs 4	How Long Did It Take Ngaroto I Rangi to Sail
		from Aotearoa to Hawaiki?