



PERSONALISED KNOWLEDGE PLANNER

STAGES 4-8

STAGE 4 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
Stage 4 Number Identification and Sequencing	<p>1. Instantly recall forwards and backwards number sequences to 100.</p> <p>IKAN- Bank 1 Q1, Q2</p>	<p>NNN Stage 3 Part A Add/Sub -Working with before, after and between p.24-25</p> <p>NNN Stage 3 Part B Add/Sub -Counting on and counting backwards p.41-44</p> <p>NNN Stage 3 Part C Add/Sub -Identifying numbers before, after and between p.10-12</p> <p>NNN Stage 3 for the Older Student Add/Sub -Working with before, after and between p.27-28 *Counting on and counting backwards p.51-53</p> <p>NZCM-Stage 4 -Reading and Writing whole numbers up to 100 and beyond p.152-153. -Ordering numbers up to 100 and beyond p.162-169 -Counting backwards and forwards p.170-171 -What comes 1 before or after me? p.172-173 -What comes ten before or after me? p.176-177 -Skip counting in twos, fives and tens p.178-187</p>	<p><u>Year 4 Order and Direction (something easier)</u> Going up Going down Number Line Order</p> <p><u>Year 4 Order and Direction (middle)</u> Which is bigger? Which is smaller? Number lines</p> <p><u>Year 4 Order and Direction (something harder)</u> Ascending Order Descending Order Greater Than or Less Than</p> <p><u>Extension: Year 4 Graphs and Patterns</u> Increasing Patterns Decreasing Patterns</p> <p><u>Year 4 Counting and Grouping (something easier)</u> 1st to 31st</p> <p><u>Year 4 Counting and Grouping (middle)</u> Numbers in Words</p> <p>K'net Games Counting up to 100 Number Line Give the Dog a Bone Tower Defence Higher and Lower Mend the Number Counting Caterpillar Counting Cars Saucer Sorter SAS Number Sort Natty Numbers Fairy Fog One False Move Count along to 100 Number Line</p> <p>Missing Number Number Line Give the Dog a Bone Tower Defence Higher and Lower Mend the Number Number Line</p>	<p>-Hundreds Board with Arrow Cards -What comes before and after this number? -Empty Number Lines -Double Number Lines -Whole Number Rounding -Teenagers -Make a number/Sorting Card Activity -Number Fans -Grab it -Number Order Rockets -Maths with a dice</p>
Stage 4 Fractions	<p>2. Instantly recognise and write simple fractions.</p> <p>IKAN- Bank 1 Q3, Q4</p>	<p>NZCM Stage 4 -Fractions p.226-231</p> <p>NZCM Stage 5 -Naming fractions p.274-277</p>	<p>K'net Games <u>Pizza Fractions Game (Level 1)</u> Fraction Flags: One Half Fraction Flags: One Third Thirteen Ways at Looking at One Half</p> <p><u>Year 4 Counting and Grouping (something easier)</u> Share the treasure Fill the jars</p> <p><u>Year 4 Counting and Grouping</u> What are the chances?</p> <p><u>Year 4 Shapes, Objects and Fractions (something easier)</u> Groups of Two How full? Halves and quarters</p> <p><u>Year 4 Shapes, Objects and Fractions (middle)</u></p>	<p>-Fraction Card Game -Fraction Snap and Match. -Fraction Memory Cards. -Identifying Unit Fractions -I have ___ who has ___? -Fraction Dominoes -Magic Fraction Wheels -Fraction Snap (Parts of a whole)</p>

STAGE 4 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
			Halve it! What fraction is shaded? Fractions of a collection	
Stage 4 Place Value	3. Understand tens in numbers to 100. IKAN- Bank 1 Q5	NZCM Stage 4 -How many tens and ones? P.154-157 -Understanding place value up to 100 p.30-41	Year 4 Counting and Grouping (something easier) Making big numbers count K'net Games: Place Value-Tens and Ones Shark Numbers Lifeguards Big Count Bayou: Group Tens and Ones	-Money -Banker Game -"I have \$90 how many ten dollar notes do I have?" (Change the amount of money and answer in less than 4 secs) -Number Fans -Thousands Book Game Secret Number
	4. Give the number for groupings of tens in numbers to 100. IKAN- Bank 1 Q6	NZCM Stage 4 -How many tens and ones? P.154-157 NZCM Stage 5 -How many tens? p.229-232 NZCM Stage 6 -Twos, threes, fives and tens in numbers to 100 p.233	Year 4 Counting and Grouping (something easier) Groups of five Groups of Ten Year 4 Counting and Grouping (middle) How many combinations? K'net Games: Place Value-Tens and Ones Shark Numbers Lifeguards Big Count Bayou: Group Tens and Ones	-Money/Banker Game -I have \$100 how many ten dollar notes is that? -Kiwi Kapers -Show me the number.
Stage 4 Basic Facts	5. Instantly recall doubles and halves to 20. IKAN- Bank 1 Q7, Q8	NZCM Stage 4 -Doubles and Halves p.204-207 NZCM Stage 5 -Doubles and halves p.255-258.	Year 4 Counting and Grouping (middle) Dividing Twos Groups of Three Groups of Four K'net Games: Hit the Button Game 1	-Double and Half-Card Game -Family Game- Bang! -Sorting Card Activity -Number Fans
	6. Instantly recall basic subtraction and addition facts to 10. IKAN- Bank 1 Q7, Q8	NZCM Stage 4 -Addition facts to 10 p.188-195	Year 4 Counting and Grouping (something harder) Groups of six Groups of seven Groups of Eight Dividing Fives Dividing Tens Year 4 Addition and Subtraction (something easier) Everyday money Who has the money? Adding to Ten Addictive Addition Simple Subtraction Year 4 Addition and Subtraction (middle) Are you ready? Magic Mental Addition Magic Mental Subtraction Columns that Add Columns that Subtract Money How much change? Test Year 4 Addition and Subtraction (something harder) Column Addition Column Subtraction Here come the Words Extension: Year 4 Multiplication and Division Something Easier Middle	-Salute Card Game -Addition and Subtraction Card Games -Maths Discs -Dice Race -Kiwi Kapers -Number Fans -Family Game 'Bang' -Ten + facts to learn. -4 in a Row Addition. -Make Ten -Pig in the Middle (add/sub).

STAGE 4 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
			Something Harder K'net Games: Dino Place Value Bonds to 100 Number Bonds-Aliens	

Extension 5

NZCM Stage 5

*Pairs that add to 100 p.261-262

NZCM Stage 4

* Adding to a hundred with tens p.222-225

K'net Games

E1. Skip count forwards and backwards to 100 in 2s.

E2. Skip count forwards and backwards to 100 in 5s.

E3. Skip count forwards and backwards to 100 in 10s.

E4. Know teen number facts.

E5. Know multiples of 10 that add to 100.

Connect the dots
 Saucer Sorter
 Skip Counting Back and Forth Game
 Balloon Popping
 Saucer Sorter
 Grouping and Grazing
 Count by 10
 Skip Counting over the River
 Spooky Counting on in Tens
 Spooky Counting Back in Tens
 Saucer Sorter
 Grouping and Grazing
 Dino Place Value
 Bonds to 100
 Number Bonds-Aliens

STAGE 5 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
Stage 5 Number Identification and Sequencing	<p>1. Instantly recall forwards and backwards number sequences to 1000. IKAN- Bank 2 Q1, Q2</p>	<p>NZCM Stage 5 -Place Value up to 1000 p.224-227. -Reading and Writing Whole Numbers up to 1000 p.228 -Ordering Numbers up to 1000 p.236-238 -What comes 1, 10 or 100 before and after me? P.246-247 -Skip counting in ones, tens and hundreds p.242-243 -Skip Counting in twos, threes, fours and fives p.244-245</p> <p>*Rounding to the nearest ten or hundred p.239-241 (NB: above activity introduces use of tidy numbers well).</p>	<p><u>Year 5 Number Order (something easier)</u> Nearest 10? Which is Bigger? Which is Smaller? Number Lines</p> <p><u>Year 5-Number Order (middle)</u> Are you ready? Ascending Order Descending Order Greater than or Less Than Nearest 100 Nearest Whole Number Comparing Decimals Test</p> <p><u>Year 5-Number Order (something harder)</u> Rounding Numbers Nearest 1000? Decimal Order</p> <p>K'net Games: Missing Number Number Line Higher and Lower Counting Caterpillar One False Move Missing Number Higher and Lower</p>	<p>-Hundreds Board with Arrow Cards -Sorting Cards/Make a Number Game -Number Fans -Number Order Rockets -Number and Place Value -Grab it.</p>
Stage 5 Fractions	<p>2. Identify and compare the size of fractions. IKAN- Bank 2 Q3, Q4</p>	<p>NZCM Stage 5 -Naming fractions p.274-277</p> <p>NZCM Stage 6 -Identifying Fractions p.239-240</p>	<p><u>Year 5 Number and Patterns (something easier)</u> Fractions of a collection</p> <p><u>Year 5 Number and Patterns (middle)</u> Shading equivalent fractions What fraction is shaded?</p> <p><u>Year 5 Number and Patterns (something harder)</u> Equivalent Fractions</p> <p>K'net Games: Pizza Fractions Game (Level 2) Picture Fractions Fractions Tutorial Fractions Booster Activity Visual Fractions Tutorial More Than One Half Ordering and Comparing Fractions Fraction Frenzy Four Jelly Golf</p>	<p>-Fraction Circles -List and order fractions -Rocket Game with fractions -Pizza Cards -Mystery Stars</p>
	<p>3. Order simple fractions. IKAN- Bank 2 Q3, Q4</p>	<p>NZCM Stage 6 -Counting on and back in fractions p.241-242 -Ordering Fractions p.243</p> <p>*NZCM Stage 7 Book 2 -Ordering fractions p.187-188</p>	<p><u>Year 5 Number and Patterns (something easier)</u> Halves and Quarters</p> <p>K'net Games Picture Fractions Fun Fraction Game for Kids Ordering and Comparing Fractions Comparison Shoot Out!</p>	<p>-List and order fractions -Rocket Game with fractions -Fractions 3 in a row.</p>
Stage 5 Place Value	<p>4. Identify tens in numbers to 1000. IKAN- Bank 2 Q5</p>	<p>NZCM Stage 4 - Understanding place value beyond 100 p.42-49</p> <p>NZCM Stage 5 -How many tens? p.229-232 -Place Value up to 1000 p.224-227.</p>	<p><u>Year 5 Time and Place (something easier)</u> Making Big Numbers Count Numbers in Words</p> <p><u>Year 5 Time and Place</u> Place Value to Thousands</p> <p>K'net Games Place Value Games for Kids</p>	<p>-Money Game -Banker -I have \$____ how many tens do I have? -Number Fans -Number and Place Value</p>
	<p>5. Give the number for groupings of tens in numbers to 1000. IKAN- Bank 2 Q6</p>	<p>NZCM Stage 6 -Tens and Hundreds p.210 -Twos, threes, fives and tens in numbers to 100 p.233</p>	<p><u>Year 5 Time and Place (something easier)</u> Making Big Numbers Count Place Value to Millions</p> <p>K'net Games Place Value Games for Kids</p>	<p>-Money Game -Banker -I have \$____ how many tens/hundreds/thousands do I have? -Number Fans</p>

STAGE 5 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
Stage 5 Basic Facts	6. Instantly recall basic addition facts to 20. IKAN- Bank 2 Q7	NZCM Stage 4 -Ten and ... p.196-197 -Groups that make 20 p.198-203 -Adding to 20 p.208-221 NZCM Stage 6 -Addition and Subtraction basic facts p.230-232 NZCM Stage 5 -Addition facts to decades p.248-252.	Year 5 Number and Patterns (something easier) Magic Mental Addition Columns that add Columns that subtract Year 5 Number and Patterns (middle) Column Addition Column Subtraction Problems: Add and Subtract Year 5 Number and Patterns (something harder) Adding colossal columns Subtracting colossal columns Word problems Mass word Problems K'net Games Game 8 Fishing Subtraction Game	-Around the World -Salute -Addition and Subtraction Flash Cards -Addition and Subtraction Card Games -Family Game- Bang! -Number Fans - 1-9 Number Cards -Dice Race -Kiwi Kapers
	7. Instantly recall basic multiplication facts 2x, 5x and 10x IKAN- Bank 2 Q8	NZCM Stage 4 -Groups of two p.158-159 -Groups of five p.160-161 -What comes ten before or after me? p.176-177 -Skip counting in twos, fives and tens p.178-187 NZCM Stage 5 -Multiplying by 10 p.234-235 -How many groups of two or three? p.265-266 -How many groups of four or five? p.267 -Two, three, four, five and ten times tables p.268-272.	Year 5 Multiplication and Division (something easier) Groups of Ten Groups of Four Groups of Seven Groups of Nine Dividing Tens Remainders by Arrays Year 5 Multiplication and Division (middle) Are you ready? Multiplying by 10, 100, 1000 Dividing by 10, 100, 1000 Multiplication Arrays Multiplication Facts Remainders by Tables Test Year 5 Multiplication and Division (something harder) Division Facts Contracted Multiplication Short Division Extension: More Divisions Something Easier Middle Something Harder K'net Games Fishing Multiplication Game Multiplication Drills Game	-Multiplication Round about -Multiplication and Division Flash Cards -Salute- Multiplication and Division -Card Game with Multiplication Facts -Maths Discs -Multiplication Loopy -Grab it -4 in a row Multiplication -Kiwi Multiplication -Metamorphosis -Multiplication Tables -Times out Bingo.

Extension 1 & 2

NZCM Stage 5

*Adding to a thousand with hundreds p.263

K'net Games

E1. Say the number 1 more, 10 more and 100 more up to 1000.

Less Than Greater Than
100 Hunt: Target Number
Higher and Lower
Octopus Game

E2. Say the number 1 less, 10 less and 100 less up to 1000.

Less Than Greater Than
Higher and Lower
Octopus Game

E3. Order numbers to 1000.

Missing Number

E4. Skip count forwards and backwards in 3s.

Worksheet: Count by 2s and 3s

STAGE 5 KNOWLEDGE STUDENT PLANNER

STAGE 6 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
Stage 6 Number Identification and Sequencing	<p>1. Instantly recall forwards and backwards number sequences to 1000 000.</p> <p>IKAN- Bank 3 Q1, Q2</p>	<p>NZCM Stage 6</p> <p>-Reading and writing whole numbers p.208-209</p> <p>-Skip counting in ones, tens, hundreds and thousands p.226-227.</p> <p>-Ordering whole numbers p.219-220.</p> <p>*NZCM Stage 7 Book 1</p> <p>-Counting on and back p.161-163.</p> <p>Number Smart Bk 1 Yrs 6-8</p> <p>Place Value to 1000 000 p.6-7</p>	<p><u>Year 6 Rounding and Place Value (something easier)</u></p> <p>Making Numbers Count</p> <p>Making Big Numbers Count</p> <p>Nearest 10?</p> <p>Numbers in Words</p> <p>Nearest 100?</p> <p>Expanding Numbers</p> <p><u>Year 6 Rounding and Place Value (middle)</u></p> <p>Are you ready?</p> <p>Expanded Notation</p> <p>Nearest Whole Number</p> <p>Place Value to Thousands</p> <p>Nearest 1000.</p> <p>Test</p> <p><u>Year 6 Rounding and Place Value (something harder)</u></p> <p>Expanding Numbers</p> <p>Place Value to Millions</p> <p>Rounding Numbers</p> <p><u>Year 6 Conversions and Scales (something easier)</u></p> <p>Place value to Thousands</p> <p>K'net Games</p> <p>Missing Number</p> <p>Number Line</p> <p>Higher and Lower</p>	<p>-Hundreds Board Game with Arrow Cards</p> <p>-“What number comes before and after this...?”</p> <p>-Sorting Cards/Make a Number Game</p> <p>-Number Order Rockets</p>
Stage 6 Fractions	<p>2. Convert improper fractions to whole numbers.</p> <p>IKAN- Bank 3 Q3</p>	<p>NZCM Stage 5</p> <p>Improper Fractions p.278</p>	<p><u>Year 6 Algebra and Fractions (something easier)</u></p> <p>Fractions of a collection</p> <p>Shading equivalent fractions</p> <p><u>Year 6 Algebra and Fractions (middle)</u></p> <p>Simplifying Fractions</p> <p>Equivalent Fractions</p> <p><u>Year 6 Algebra and Fractions (something harder)</u></p> <p>Addition :Common Denominator</p> <p>Subtraction: Common Denominator</p> <p>Ask your teacher to change your course to complete the following activities:</p> <p><u>Year 7 Fractions and Decimals (something easier)</u></p> <p>Simplifying fractions</p> <p><u>Year 7 Fractions and Decimals (middle)</u></p> <p>Are you ready?</p> <p>Mixed to Improper</p> <p>Improper to Mixed</p> <p>Fractions to Decimals</p> <p>Decimals to Fractions 1</p> <p>Unit Fractions</p> <p>Test</p> <p><u>Year 7 Fractions and Decimals (something harder)</u></p> <p>Converting Mixed and Improper</p> <p>Decimals to Fractions 2</p> <p>Fraction of an amount</p> <p>K'net Games</p> <p>Mixed Numbers and Improper Fractions</p> <p>Converting Improper Fractions to</p>	<p>-Name improper fractions and convert them as quickly as you can. Time yourself and verse a buddy.</p>

STAGE 6 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
Stage 6 Place Value	3. Convert whole numbers into improper fractions. IKAN- Bank 3 Q4	NZCM Stage 5 Improper Fractions p.278	Mixed Numbers Converting Mixed Numbers into Improper Fractions Clara's Fraction Ice Cream Shop See above Mathletics activities and <u>Year 6 Operations with Number (something easier)</u> Shading Equivalent Fractions <u>Extension: Year 8 Factors and Multiplies (something easier)</u> Mixed to Improper K'net Games Mixed Numbers and Improper Fractions Converting Improper Fractions to Mixed Numbers Converting Mixed Numbers into Improper Fractions Clara's Fraction Ice Cream Shop	-Name whole numbers and convert them into improper fractions as quickly as you can. Time yourself and verse a buddy.
	4. Identify hundreds in numbers to 100 000. IKAN- Bank 3 Q5	NZCM Stage 7 Book 1 -Place Value p.150 -Thousands, hundreds, tens, ones and tenths p.152-154 -Multiplying and dividing by 10, 100 and 1000 p.151 Number Smart Bk 1 Yrs 6-8 -Groupings (3) p.30 -Groups of 10, 100 and 1000 (1) p.31 -Groups of 10, 100 and 1000 (2) p.32 -Groups of 10, 100 and 1000 (3) p.33	<u>Year 6 Rounding and Place Value (something harder)</u> Expanding Numbers Place Value to Millions Rounding Numbers K'net Games Place Value to 100 Thousands Ask your teacher to change your course to complete the following activities <u>Year 7 Number Rules (something easier)</u> Place Value to Thousands <u>Year 7 Number Rules (middle)</u> Place Value to Millions	-Banker -Money Game -"I have \$ _____ how many hundreds do I have?"
	5. Identify tenths in all of a decimal number. IKAN- Bank 3 Q6	NZCM Stage 6 -Introducing decimals p.211-212 -Reading and writing decimals p.213-215. -Tenths and hundredths p.216 -Skip counting in tenths and hundredths p.228-229. *NZCM Stage 7 Book 2 -Skip counting in tenths, hundredths and thousandths p.184-185	<u>Year 6 Decimal Power (something easier)</u> Greater Than or Less than? Number Lines Comparing Decimals Multiplying by 10, 100, 1000 Nearest Whole Number <u>Year 6 Decimal Power (middle)</u> Are you Ready? Decimals on a Number Line Decimal Order Adding Decimals Subtracting Decimals Multiply Decimals: 10, 100, 1000 Test <u>Year 6 Decimal Power (something harder)</u> Fractions to Decimals Divide Decimals: 10, 100, 1000 Decimal by Whole Number K'net Games Place Value Pirates	-Hangman with decimal Numbers -Write down a decimal number and see who can be the quickest to identify all the tenths in the whole number. -Number Fans
Stage 6 Basic Facts	6. Instantly recall basic subtraction facts to 20. IKAN- Bank 3 Q7, Q8	NZCM Stage 4 -Groups that make 20 p.198-203 -Subtraction Machine Game p.212-213 -Adding to 20 p.208-221 NZCM Stage 6 -Addition and subtraction basic facts p.230-232	<u>Year 6 Operations with Number (something easier)</u> Column Addition Column Subtraction Remainders by Tables Columns that subtract <u>Year 6 Operations with Number (middle)</u> Are you ready? Adding Colossal Columns	-Addition and Subtraction Cards -Subtraction Quiz -Salute-Subtraction facts to 20. -Bowl a Fact + and - -Family Game- Bang! -Maths Discs - 1-9 Number Cards -Number Fans NZCM Stage 4

STAGE 6 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
			<p>Subtracting Colossal Columns</p> <p><u>Year 6 Algebra and Fractions (something easier)</u> Missing Values</p> <p><u>Year 6 Algebra and Fractions (middle)</u> Are you ready? Pick the next number Find the missing number 1 I am thinking of a number!</p> <p><u>Year 6 Algebra and Fractions (something harder)</u> Describing patterns Table of values Find the missing number 2</p> <p><u>Year 6 Conversions and Scales (something harder)</u> Mass Addition</p> <p>K'net Games Mad Minute Math- Subtraction</p>	Subtraction Machine Game p.212-213
	<p>7. Instantly recall multiplication facts to 10x. IKAN- Bank 3 Q8</p>	<p>NZCM Stage 6 -Multiplication and division basic facts p.234-238. *-Multiplying and dividing by 10,100 and 1000 p.218</p>	<p><u>Year 6 Operations with Number (something easier)</u> Multiplication Facts</p> <p><u>Year 6 Operations with Number (middle)</u> Contracted Multiplication Short Division Problems: Times and Divide Calculating Percentages Test</p> <p><u>Year 6 Operations with Number (something harder)</u> Mass Word Problems Long Multiplication Divide Decimals:10, 100, 1000 Long Division</p> <p><u>Year 6 Conversions and Scales (something easier)</u> Here come the words Word Problems</p> <p><u>Year 6 Conversions and Scales (middle)</u> Mass Word Problems</p> <p>K'net Games The Multiplication Game Kids Multiplication Games Online</p>	<p>-Multiplication and Division Cards -Card Game-Multiplication Facts 10x and less -Salute-Multiplication Facts -Bowl a Fact- x -Multiplication Square -Family Game- Bang! -Maths Discs -Days and Months Loop Cards - 1-9 Number Cards -Multiplication Madness -3-4 times tables Loop Cards -6-8 times tables loop cards -Position Facts -Times Out Bingo (2-10) -Fly Flip Multiplication. -Four in a Row Multiplication -Pig in the Middle (Mult/Div) -Multiplication Tables -Even better news 15 multiplication fact to learn</p>

STAGE 6 KNOWLEDGE STUDENT PLANNER

Extension

*NZCM Stage 6

-Rounding to the nearest ten, hundred and thousand p.222-223.

*NZCM Stage 7 Book 1

-Rounding p.155-158

K'NET GAMES

E1. Round whole numbers to the nearest 10, 100, 1000.

E2. Round decimals to the nearest whole number.

E3. Know what happens when you multiply a number by 1, 0 or 10.

E4. Read decimals to 3dp.

E5. Read any fraction including those greater than 1.

E6. Order unit fractions with different denominators.

E7. Know bonds to 1000.

E8. Say the number 1, 10, 100 and 1000 more or less than any number up to 10,000.

E9. Know groups of 2s, 3s, 5s and 10s in numbers to 100 and any remainders.

[Higher and Lower](#)

[Make 1](#)

[Rounding to the nearest whole number](#)

[Rounding off](#)

[Higher and Lower](#)

[Soccer Game: Rounding Decimals](#)

[Place Value Games for Kids](#)

[Soccer Game: Rounding Decimals](#)

[Decimals Place Value: Football Math](#)

[Tony's Fraction Pizza Game](#)

[Fraction Frenzy Four](#)

[Order and Compare Fractions](#)

[Dirt Bike Tug Team: Comparing](#)

[Fractions](#)

[Comparison Shoot Out!](#)

[Number Bonds Game](#)

[Number Bonds Machine](#)

[Pyramid](#)

[Higher and Lower](#)

[Octopus Game](#)

[Number Bonds Game](#)

STAGE 7 AM KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
Stage 7 Fractions	1. Identify equivalent fractions. IKAN- Bank 4 Q1, Q2	NZCM Stage 7 Book 2 -Equivalent Fractions p.186	<p>Year 6 Algebra and Fractions (something easier) Fractions of a collection Shading equivalent fractions</p> <p>Year 6 Algebra and Fractions (middle) Simplifying Fractions Equivalent Fractions</p> <p>Ask your teacher to change your course to complete Year 7 activities below.</p> <p>Year 7 Operations with Number (something easier) Shading equivalent fractions</p> <p>Extension: Year 7 Fraction Rules (something easier) Simplifying Fractions Year 7 Fraction Rules (middle) Are you Ready? One take Fraction Add: Common Denominator Subtract: Common Denominator Add: No Common Denominator Subtract: No Common Denominator Fraction by Whole Number Test Year 7 Fraction Rules (something harder) Fractions: No Common Denominator Multiplying Fractions Extension: Year 8 Factors and Multiplies (something easier) Simplifying Fractions</p> <p>K'net Games Equivalent Fractions Game Equivalent Fractions Activities Equivalent Fractions Fresh Baked Fractions Fraction Frenzy Number Eaters Equivalent Fractions Game Illuminations: Equivalent Fractions Equivalent Fractions Game Simplifying Fractions </p>	-List 10 fractions and identify matching equivalent fractions for each in less than 4 secs.
Stage 7 Place Value	2. Order decimal numbers. IKAN- Bank 4 Q3	<p>NZCM Stage 6 -Ordering decimals p.221</p> <p>NZCM Stage 7 Book 1 -Ordering Numbers p.159-160</p> <p>*NZCM Stage 7 Book 1 Negative Numbers p.165</p> <p>*NZCM Stage 7 Book 2 -Reading and writing decimals p.178</p> <p>* NZCM Stage 6 -Rounding Money p.224 -Rounding to the nearest whole number p.225</p> <p>NZCM Stage 7 Book 2 Rounding to decimal places p.181-182</p> <p>Number Smart Bk 1 Yrs 6-8 Ordering and Rounding Decimal Numbers p.12-14</p>	<p>Year 7 Number Rules (something easier) Nearest Whole Number</p> <p>Year 7 Number Rules (something harder) Rounding Decimals</p> <p>K'net Games Ordering Decimals Game SAS Number Sort Decimal Duck Ships and Boats Decimal Gallery Building Ted </p>	-Decimal Number Line -Number Order Rocket with Decimal Numbers -List and order a number of simple decimals. Explain why they are ordered in a certain way.
	3. Order decimal numbers to 3 decimal places. IKAN- Bank 4 Q4	<p>Same activities as above 📁</p> <p>NZCM Stage 7 Book 2 -Ordering decimals p.183</p> <p>Number Smart Bk 1 Yrs 6-8 Ordering and Rounding Decimal Numbers p.12-14</p>	<p>Year 7 Decimal Power (something easier) Dividing by 10, 100, 1000 Comparing Decimals Multiplying by 10, 100, 1000 Nearest Whole Number</p> <p>Year 7 Decimal Power (middle) Are you ready? Adding Decimals Subtracting Decimals Multiply Decimals: 10, 100, 1000</p>	-Number Order Rocket with Decimal Numbers -List and order a number of simple decimals. Explain why they are ordered in a certain way.

STAGE 7 AM KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
Stage 7 Basic Facts			Divide Decimals: 10,100,1000 Decimal by Whole Number Test Year 7 Decimal Power (something harder) Decimal by decimal K'net Games Ordering Decimals Game SAS Number Sort Decimal Duck Ships and Boats Decimal Gallery Building Ted	
	4. Identify hundredths in all of a decimal number. IKAN- Bank 4 Q5	NZCM Stage 7 Book 2 -Tenths, hundredths and thousandths p.179-180 NZCM Stage 6 -Tenths and hundredths p.216	Same activities as above 📱 K'net Games Place Value Pirates Decimals Place Value: Football Math	-Create decimal numbers and ask how many hundredths are in all of this number? Answer in less than 4 secs. Challenge yourself by using numbers with 4 or 5 decimal places.
	5. Instantly recall basic division facts. IKAN- Bank 4 Q6, Q7	NZCM Stage 7 Book 1 -Dividing a two-digit number by a one-digit number p.164 -Number practice p.166-167	Preliminary Activities: <u>Year 7 Operations with Number (something easier)</u> Magic Mental Addition Magic Mental Subtraction Column Addition Column Subtraction Contracted Multiplication <u>Year 7 Operations with Number (middle)</u> Are you ready? Estimation: Add and Subtract Estimation: Multiply and Divide Adding Colossal Columns Long Multiplication Test <u>Year 7 Operations with Number (something harder)</u> Order of Operations 1 Divide Decimals: 10, 100, 1000 K'net Games Kids Multiplication Games Online	-Multiplication and Division Flash Cards -Around the World- Division Test. -Metamorphosis -Card Game-Division Facts -Salute-Division Facts -Family Game- Bang! -Days and Months Loop Cards -Quick Thinking (Mult/Div) -Is it Divisible? -Position Facts -Pig in the Middle (Mult/Div)
	6. Instantly recall common factors. IKAN- Bank 4 Q8	NZCM Stage 7 Book 1 -Factors p.168-169	Year 7 Number Rules (something harder) Highest Common Factor K'net Games Factors and Multiples Jeopardy Game Factors Millionaire Game	-Common Factors Quiz with a buddy. Choose one or 2 numbers and list the common factors of each or both together. -Explain to your buddy what makes them common factors.

K'net Games

E1. Count forwards and backwards in thousandths, hundredths, tenths, ones and tens.

E2. Say the number 1/1000, 1/100, 1/10, 1 and 10 before and after any number.

E3. Round whole numbers and decimals to the nearest 1 or tenth.

E4. Order mixed fractions.

E5. Recall conversions between decimals, fractions and percentages.

E6. Use divisibility rules for 2, 3, 5, 9 and 10.

E7. Know square numbers and square roots to 100.

E8. Find common multiples of numbers to 10.

[Decimal Ducks](#)
[Ships and Boats](#)
[Higher and Lower](#)
[Decimal Detective](#)
[Rounding Off](#)
[Rounding to the nearest whole number](#)
[Soccer Game: Rounding Decimal Numbers](#)
[Dirt Bike Tug Team: Comparing Fractions](#)
[Comparing Fractions/Decimals](#)
[Convert Fractions to Decimals](#)
[Mission Magnetite](#)
[Changing Fractions and Decimals to Percentages](#)
[Fun Division Game: Divide by 9](#)
[Find Square Root](#)
[Snow Fight](#)
[Factors and Multiples](#)
[Factor Tree](#)

STAGE 7 AM KNOWLEDGE STUDENT PLANNER

STAGE 8 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
Stage 8 Fractions	<p>1. Order fractions with unlike denominators. IKAN- Bank 5 Q1, Q2</p>	<p>NZCM Stage 7 Book 2 -Ordering Fractions p.187-188</p> <p>*NZCM Stage 7 Book 2 -Finding fractions p.189</p>	<p><u>Year 8 Operations with Fractions (something easier)</u> Descending Order Mixed to Improper Addition: Common Denominator Addition: No Common Denominator Fractions to Decimals Ordering Integers</p> <p><u>Year 8 Operations with Fractions (middle)</u> Are you ready? Ordering Fractions Fraction to Terminating Decimal Converting Mixed and Improper Common Denominator No Common Denominator</p> <p><u>Year 8 Operations with Fractions (something harder)</u> Operations with Mixed numerals Algebraic Fractions 1 More Fraction Problems</p> <p><u>Year 8 More Operation with Fractions (something easier)</u> Word Problems Simplifying Fractions Fraction by Whole Number Unit Fractions of a collection Fractions: No Denominator Converting Mixed and Improper</p> <p><u>Year 8 More Operation with Fractions (middle)</u> Are you ready? Mixed Numerals Fraction of an amount Dividing Fractions Fraction Word Problems More Fraction Problems Multiplying Fractions Test</p> <p><u>Year 8 Integers (something harder)</u> Ordering Fractions</p> <p>K'net Games Ordering Fractions Lesson Ordering Fractions Practice</p>	<p>-Rockets Game- with a variety of proper and improper fractions. -Fraction Number Line -Decimal Number Line</p>
Stage 8 Place Value	<p>2. Identify hundredths in all of a decimal number to 3dp. IKAN- Bank 5 Q3</p>	<p>NZCM Stage 7 Book 2 -Tenths, hundredths and thousandths p.179-180</p>	<p><u>Year 8 Operations with Decimals (something easier)</u> Nearest Whole Number Rounding Numbers Decimals to Fractions 1 Adding Decimals Multiply Decimals: 10, 100, 1000 Divide Decimals: 10, 100, 1000</p> <p><u>Year 8 Operations with Decimals (middle)</u> Are you ready? Rounding Decimals Adding and Subtracting decimals Decimals to fractions 2 Decimal by whole number Decimal by Decimal Test</p> <p><u>Year 8 Operations with Decimals (something harder)</u> Recurring Decimals</p> <p>K'net Games Place Value Pirates Decimal Detective Decimal Point</p>	<p>-Create numbers with 3 or 4 decimal places. Ask how many hundredths in all of the number? Answer in less than 4 seconds.</p>

STAGE 8 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
	3. Order decimal numbers to 3 decimal places.(Identify a number halfway between 4.8 and 4.7) IKAN- Bank 5 Q4	NZCM Stage 7 Book 2 -Ordering decimals p.183	<u>Year 7 Decimal Power (something easier)</u> Dividing by 10, 100, 1000 Comparing Decimals Multiplying by 10, 100, 1000 Nearest Whole Number <u>Year 7 Decimal Power (middle)</u> Are you ready? Adding Decimals Subtracting Decimals Multiply Decimals: 10, 100, 1000 Divide Decimals: 10,100,1000 Decimal by Whole Number Test <u>Year 7 Decimal Power (something harder)</u> Decimal by decimal K'net Games Place Value Pirates Decimal Detective Decention Decimal Duck Ships and Boats Decimal Gallery Building Ted	-Number Order Rocket with Decimal Numbers to 3 decimal places. -Decimal Number line-what number is $\frac{1}{2}$ between these two numbers? Answer in less than 4 seconds.
	4. Convert percentages into fractions. IKAN- Bank 5 Q5	NZCM Stage 7 Book 1 -Fractions and decimals p.172-173 NZCM Stage 7 Book 2 Fractions, decimals and percentages p.190-192.	<u>Year 7 Fractions and Decimals (something easier)</u> Calculating Percentages <u>Year 7 Fractions and Decimals (middle)</u> Fractions to Decimals Decimals to Fractions 1 <u>Year 7 Fractions and Decimals (something harder)</u> Percentage to Fraction <u>Year 7 Operations with Number (middle)</u> Calculating Percentages <u>Year 8 Operations with Fractions (something harder)</u> Percentage Increase and Decrease <u>Year 8 More Operation with Fractions (something harder)</u> Percentage Word Problems Ratio <u>Year 9 Fractions, Decimals, Percents (something easier)</u> Decimals to Fractions 1 Divide decimals:10,100,1000 Decimal by Whole Number <u>Year 9 Fractions, Decimals, Percents (middle)</u> Are you ready? Decimal to Percentage Percentage to Fraction Percentage of a quantity Percentage composition Percentage increase and decrease Percentage word problems Profit and loss Test <u>Year 9 Fractions, Decimals, Percents (something harder)</u> Purchase options K'net Games Mission Magnetite	-Percentage conversion Game-Practice converting fractions-decimals-percentages and vice versa. What is the rule to convert these numbers? -Alice got 73 answers right out of 100. What would this look like as a fraction? A Decimal? And a percentage? Change the numbers you work with.

STAGE 8 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
			Comparing Fractions Video Changing Fractions and Decimals to Percentages	
	5. Convert decimals into percentages. IKAN-Bank 5 Q6	NZCM Stage 7 Book 1 -Fractions and decimals p.172-173 NZCM Stage 7 Book 2 Fractions, decimals and percentages p.190-192.	Year 8 Operations with Percentages (something easier) Decimals to fractions 1 Divide Decimals: 10, 100, 1000 Decimal by Whole Number Year 8 Operations with Percentages (middle) Are you Ready? Decimal to Percentage Percentage to Fraction Percentage Composition Percentage of a Quantity Percentage Increase and Decrease Percentage Word Problems Test Year 8 Operations with Percentages (something harder) Profit and Loss Year 9 Fractions, Decimals, Percents (middle) Decimal to Percentage Percentage composition Percentage increase and decrease Percentage word problems K'net Games Mission Magnetite Comparing Fractions Video Changing Fractions and Decimals to Percentages	-Percentage conversion Game-Practice converting fractions-decimals-percentages and vice versa. What is the rule to convert these numbers? -Alice got 73 answers right out of 100. What would this look like as a fraction? A Decimal? And a percentage? Change the numbers you work with.
Stage 8 Basic Facts	6. Instantly recall the least common multiple of a number. IKAN- Bank 5 Q7	NZCM Stage 7 Book 1 -Multiples p.170-171 *NZCM Stage 7 Book 1 Squares and square root practice p.174	Preliminary Activities: Year 8 Operation with Number (something easier) Multiplication Facts Division Facts Short Division Year 8 Operation with Number (middle) Order of Operations 1 Prime or composite Year 8 Operation with Number (something harder) Integers: Order of Operations Product of Prime Factors WALT Activities: Year 8 Factors and Multiplies (something easier) Multiples Estimation: Multiply and Divide Year 8 Factors and Multiplies (middle) Lowest Common Multiple Index Notation Product of Prime Numbers Divisibility Tests Extension: Year 8 Factors and Multiplies (something harder) Multiplication with indices Index Form to Numbers Year 9 Rates and Ratio (something easier) Lowest Common Multiple K'net Games	-List the multiples of 42. -List the multiples of 144. Change the numbers you work with. -Which is the least (smallest) multiple? -To challenge yourself find the highest and lowest common multiples/factors of 2 or 3 different numbers. -Common Factors Venn Diagram -Metamorphosis

STAGE 8 KNOWLEDGE STUDENT PLANNER

	WALT	Follow-up Activities	Mathletics	Maintenance/ Group Box
			Factors and Multiples Jeopardy Game Least Common Multiple Game Snow Fight	
	7. Instantly recall the highest common factor of a number. IKAN- Bank 5 Q8	NZCM Stage 7 Book 1 -Multiples p.170-171	Ask your teacher to change your course to match your activities. Year 7 Number Rules (something harder) Highest Common Factor Year 8 Operations with Number (something harder) Highest Common Factor Year 8 Factors and Multiplies (middle) Highest Common Factor Year 9 Rates and Ratio (something easier) Highest Common Factor K'net Games Factor Feeder Greatest Common Factor Factors and Multiples Jeopardy Game Factors Millionaire Game	-List the common factors of 28. -List the common factors of 98. Change the numbers you work with. -Which is the highest common factor? -To challenge yourself find the highest and lowest common multiples/factors of 2 or 3 different numbers.

K'net Games

E1. Count forwards and backwards in thousandths, hundredths, tenths, ones and tens.

E2. Say the number 0.001, 0.01, 0.1, 1 and 10 before and after decimal numbers.

E3. Know simple powers of numbers to 10.

E4. Use divisibility rules for 2,3,4,5,6,8,9 and 10.

E5. Know what happens when any number is multiplied or divided by a power of 10.

E6. Round decimal numbers to the nearest 100, 10, 1, 0.1 or 0.01.

E7. Recall prime numbers to 20.

[Decimal Detective](#)

[Decimal Duck](#)

[Ships and Boats](#)

[Decimal Gallery](#)

[Building Ted](#)

[Higher and Lower](#)

[Soccer Game: Rounding Decimal Numbers](#)

[Powers of Numbers](#)

[Alien Powers](#)

[Fun Division Game: Divide by 9](#)

[Place Value Games for Kids](#)

[Make 10](#)

[Make 1](#)

[Rounding to the nearest whole number](#)

[Rounding Off](#)

[Higher and Lower](#)

[Prime Numbers](#)

[Odd and Even Numbers](#)

[Prime or Composite Number Game](#)

[Prime Numbers up to 100.](#)

[Prime and Composite Numbers Fact Sheet](#)

[King Kong Prime Numbers](#)