# NUMERACY PROJECT TASKS AND ACTIVITIES

## Stage One

* The following list of activities is to be used for a student who scores at Stage One on the Numeracy Assessment Universal Screener.
* Teachers and interventionists should choose activities in the areas in which the student was unable to demonstrate mastery of a particular skill in order to create an “Intervention Prescription”. These resources can be found here: <https://nzmaths.co.nz/resource-finder/numeracy>.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1:1**  ***Rote counting 0-10*** | | **1:2**  ***Saying the forwards and backwards number word sequence in the range 0-10, starting and ending with any number*** | | **1:3**  ***Numeral recognition (0-10)*** | | **1:4**  ***Number order: What comes before and after a given number in the range 0-10*** | | **1:5**  ***Ordering the numbers in the range 0-10*** |
| * Caterpillar Legs * Clapping * Counting * Counting as We Go * Flower Petals * How Many? * How Many Claps? * How Many Taps? * Loud and Soft * Number Fans * Number Mat * Tick Tock * Where Do I Go? | | |  | | --- | | * Before and After * Birthday Cakes * Caterpillar Legs * Clapping * Counting as We Go * Feed the Elephants * Flower Petals * How Many Taps? * Lily Pads * Loud and Soft * Number Fans * Number Line Flips * Number Mat * Ten Frames * Tick Tock * Walk the Bridge | | | |  | | --- | | * Birthday Cakes * Caterpillar Legs * Feed the Elephants * Flower Petals * How Many Claps? * How Many Taps? * Lily Pads * Lucky Dip * Match it Up * Number Fans * Number Line Flips * Number Mat * Pipe Cleaner Numbers * Ten Frames * Toy Box * Walk the Bridge * Where Do I Go? | | | |  | | --- | | * Before and After * Clapping * Counting as We Go * Feed the Elephants * How Many Taps? * Lily Pads * Loud and Soft * Number Fans * Number Line Flips * Number Mat * Walk the Bridge | | | * Card Ordering * Caterpillar Legs * Feed the Elephants * Number Line Flips * Rocket – Where Will I Fit? * Who is the Richest? |
| **1:6**  ***Counting sets 0-10*** | | | **1:7**  ***Forming sets 0-10*** | | **1:8**  ***Comparing two sets in the range 0-10*** | | **1:9**  ***Recognizing patterns to 5*** | |
| * Birthday Cakes * Caterpillar Legs * Facts to 10 * Feed the Elephants * Flower Petals * Give Me Five * How Many Cubes? | * How Many Taps? * How Many? * Match it Up * Ten Frame Flashes – Empty Spaces * Ten Frames Game * Toy Box | | * Birthday Cakes * Caterpillar Legs * Feed the Elephants * Flower Petals * Give Me Five * How Many? * Number Fans * Ten Frames * Toy Box | | * Comparing Sets of Claps * Comparing Small Collections * Comparisons with Counters * Comparisons with Fingers * Ten Frame Flashes – Empty Spaces * Ten Frames * Who is the Richest? | | * Adding and Subtracting with One Hand * Fabulous Five * Finger Patterns to 5 * How Many Claps in All? * Rekenrek Patterns to Five * Ten Frames Game | |

**NUMERACY PROJECT TASKS AND ACTIVITIES**

## Stage Two

* The following list of activities is to be used for a student who scores at Stage Two on the Numeracy Assessment Universal Screener.
* Teachers and interventionists should choose activities in the areas in which the student was unable to demonstrate mastery of a particular skill in order to create an “Intervention Prescription”. These resources can be found here: <https://nzmaths.co.nz/resource-finder/numeracy>.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| ***2:1***  ***Rote counting 0-20*** | ***2:2***  ***Saying the forwards and backwards number word sequence in the range 0-20, starting and ending with any number*** | ***2:3***  ***Numeral recognition 0-20*** | ***2:4***  ***Number order: What comes before and after a given number in the range 0-20*** | | ***2:5***  ***Ordering the numbers in the***  ***range 0-20*** | | ***2:6***  ***Counting sets 0-20*** |
| * Arrow Cards * Clapping * Counting * Counting as We Go * How Many Taps? * Loud and Soft * Number Fans * Tick Tock * Where Do I Go? | * Arrow Cards * Before and After * Clapping * Counting * Counting as We Go * Flower Petals * How Many Taps? * Lily Pads * Loud and Soft * Number Fans * Number Line Flips * Number Mat * Tick Tock * Walk the Bridge | * Arrow Cards * Birthday Cakes * Caterpillar Legs * Feed the Elephants * Flower Petals * How Many Taps? * Lily Pads * Lucky Dip * Match it Up * Number Fans * Number Mat * Pipe Cleaner Numbers * Toy Box * Walk the Bridge * Where Do I Go? | * Before and After * How Many Taps? * Lily Pads * Loud and Soft * Number Fans * Number Line Flips * Number Mat * Ten Frames * Walk the Bridge | | * Card Ordering * Caterpillar Legs * Counting as We Go * Feed the Elephants * How Many Taps? * Rocket – Where Will I Fit? * Who is the Richest? | | * Birthday Cakes * Caterpillar Legs * Feed the Elephants * Flower Petals * How Many? * How Many Cubes? * How Many Taps? * Match it Up * Ten Frame Flashes – Empty Spaces * Ten Frames * Ten Frames Game * Toy Box |
| ***2:7***  ***Forming sets 0-20*** | ***2:8***  ***Comparing two numbers in the range 0-20 using number cards*** | ***2:9***  ***Instantly recognizing patterns to 10*** | | ***2:10***  ***Solving addition problems to 20 by joining sets and counting all the objects*** | | ***2:11***  ***Solving subtraction problems from***  ***20 separating sets and counting all***  ***the objects*** | |
| * Birthday Cakes * Caterpillar Legs * Chains * Feed the Elephants * Flower Petals * How Many? * Toy Box | * Comparisons with Number Cards * Tens Frame Flashes – Empty Spaces * Ten Frames * Ten Frames Game | * Adding and Subtracting with One Hand * Both Hands * Compatible Numbers to Ten * Dinosaur Stomp * Fabulous Fives * Finger Patterns to 10 * How Many Claps in All? * Rekenrek Patterns to Ten * Ten Frames * Ten Frame Game | | * Adding and Subtracting with   Counters   * Adding and Subtracting with One * Hand * Both Hands * Challenging Hands Problems * Dinosaur Stomp | | * Adding and Subtracting with   Counters   * Both Hands * Challenging Hands Problems * Teens and Fingers | |

**NUMERACY PROJECT TASKS AND ACTIVITIES**

## Stage Three

* The following list of activities is to be used for a student who scores at Stage Three on the Numeracy Assessment Universal Screener.
* Teachers and interventionists should choose activities in the areas in which the student was unable to demonstrate mastery of a particular skill in order to create an “Intervention Prescription”.
* These resources can be found here: <https://nzmaths.co.nz/resource-finder/numeracy>.

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| --- | --- | --- | --- | --- | --- |
| ***3:1***  ***Rote counting 0-50*** | ***3:2***  ***Saying the forwards and***  ***backwards number word sequence in the range 0-50, starting and ending with any number*** | ***3:3***  ***Numeral recognition***  ***0-50*** | ***3:4***  ***Number order: What comes before and after a given number in the range 0-50*** | ***3:5***  ***Ordering the numbers in the range 0-50*** | ***3:6***  ***Counting up to 50 objects by grouping the objects in tens*** |
| * Arrow Cards * Clapping * Counting * Counting as We Go * Knocks and Taps * Loud and Soft * Number Fans * Tick Tock | * Arrow Cards * Bead Strings * Clapping * Counting * Counting as We Go * Knocks and Taps * Loud and Soft * Number Fans * Number Line Flips * Tick Tock * Walk the Bridge | * Arrow Cards * Birthday Cakes * Caterpillar Legs * Knocks and Taps * Lily Pads * Lucky Dip * Number Fans * Number Line Flips * Pipe Cleaner Numbers * Ten Frames * Walk the Bridge | * Bead Strings * Clapping * Knocks and Taps * Lily Pads * Loud and Soft * Number Fans * Number Line Flips * Ten Frames * Walk the Bridge | * Bead Strings * Card Ordering * Caterpillar Legs * Rocket – Where Will I Fit? * Who is the Richest? | * Bead Strings * More Ones and Tens * Ten in Tens |
| ***3:7***  ***Comparing two numbers in the range 0-50 using number cards*** | ***3:8***  ***Instantly recognizing patterns***  ***to 10, including doubles*** | ***3:9***  ***Recalling facts within 5, and***  ***doubles to 10*** | ***3:10***  ***Solving addition problems to 20 by counting all the objects in their head*** | ***3:11***  ***Solving subtraction problems from 20 by counting all the objects in their head*** | ***3:12***  ***Solving addition and subtraction problems with decade numbers by counting tens in their head*** |
| * Comparisons with   Number Cards   * Ten Frames | * Adding and Subtracting with One Hand * Both Hands * Compatible Numbers to Ten * Making Tens * Rekenrek Patterns to Ten * Rekenrek Reinforcing Five Grouping * Rekenrek Reinforcing Ten Grouping * Ten Frames | * Adding and Subtracting   with Counters   * Adding and Subtracting with One Hand * Imaging Many Hands * Making Tens | * Adding and Subtracting   with Counters   * Crossing the Five Barrier * Counters in a Row * Both Hands * Bowl a Fact * Imaging Many Hands | * Both Hands * Bowl a Fact * Crossing the Five Barrier * Imaging Many Hands * What’s Hidden? | * More Ones and Tens * Imaging with Tens Frames * What's Hidden? |

**NUMERACY PROJECT TASKS AND ACTIVITIES**

## Stage Four

* The following list of activities is to be used for a student who scores at Stage Four on the Numeracy Assessment Universal Screener.
* Teachers and interventionists should choose activities in the areas in which the student was unable to demonstrate mastery of a particular skill in order to create an “Intervention Prescription”. These resources can be found here: <https://nzmaths.co.nz/resource-finder/numeracy>.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***4:1***  ***Rote counting 0-100*** | ***4:2***  ***Saying the forwards and backwards number word sequence in the range 0-100, starting and ending with any number*** | | ***4:3***  ***Numeral recognition***  ***0-100*** | ***4:4***  ***Number order: What comes before and after a given number in the range 0-100*** | | ***4:5***  ***Ordering the numbers in the range 0-100*** | | ***4:6***  ***Comparing two numbers in the range 0-100 using number cards*** |
| * Clapping * Counting as We Go * Knocks and Taps * Lily Pads * Number Fans * Number Line Flips * Tick Tock | * Bead Strings * Clapping * Counting as We Go * Knocks and Taps * Lily Pads * Number Fans * Number Line Flips | | * Knocks and Taps * Lily Pads * Lucky Dip * Number Fans * Number Hangman * Number Line Flips * Pipe Cleaner Numbers * Ten Frames | * Bead Strings * Counting as We Go * Knocks and Taps * Lily Pads * Number Fans * Number Hangman * Number Line Flips * Ten Frames | | * Arrow Cards * Bead Strings * Card Ordering * Counting as We Go * Rocket – Where Will I Fit? * Who is the Richest? | | * Comparisons with Number Cards * Ten Frames |
| ***4:7***  ***Saying the forwards and backwards number word sequences in the range 0-100 for twos, fives, and tens*** | ***4:8***  ***Recalling the facts up to 10,***  ***and the teen facts*** | | ***4:9***  ***Recalling the number of 10s within decades that add to 100*** | ***4:10***  ***Solving addition problems to 100 by counting on in their head*** | | ***4:11***  ***Solving subtraction problems to 100 by counting back in their head*** | | ***4:12***  ***Solving addition and subtraction problems using groups of tens*** |
| * Bead Strings * Beep * More Ones and Tens * Number Hangman * Number Strips | * Adding and Subtracting with Counters * Bridges * Building Teens * Imaging Many Hands * Make Ten * Number Boggle * “Teen” and “Ty” Numbers * Teen Numbers * Ten Frames * Ten Frames Teen Numbers * What’s Hidden? | | * Bead Strings * Close to 100 * Ten in Tens * Zap | * Addition Dice * Change Unknown * Number Tiles * Peek-a-Boo Adding * Teddy Bear Walk – Addition * Teddy Bear Walk – Addition & Subtraction | | * Counting Back * Teddy Bear Walk – Addition & Subtraction | | * Adding Tens and Ones * Adding Tens |
| ***4:13***  ***Solving multiplication problems using skip counting by twos, fives, and tens*** | ***4:14***  ***Solve division problems by equal sharing in ones, twos, and fives*** | ***4:15***  ***Finding halves and quarters of sets, regions, and objects by sharing*** | | | ***4:16***  ***Finding simple fractions of regions*** | | ***4:17***  ***Finding fractions of sets by sharing*** | |
| * Animal Arrays * Array Games * Blank Grids * Number Strips | * Biscuit Boxes | * Fraction Animals * Playdough Fractions * Playdough Fractions – Feeding Animals * Playdough Fractions – Same but Different | | | * Playdough Fractions * Playdough Fractions – Feeding Animals * Playdough Fractions – Same but Different * Wafers | | * Playdough Fractions * Fair Shares | |

**NUMERACY PROJECT TASKS AND ACTIVITIES**

## Stage Five

* The following list of activities is to be used for a student who scores at Stage Five on the Numeracy Assessment Universal Screener.

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| ***5:1***  ***Identify numbers in the range 0-1,000*** | ***5:2***  ***Say the forwards and backwards number word sequences by ones, ten, hundreds, and thousands in the range of 0-1,000,000, including finding numbers that are 10, 100, and 1,000 more or less than a given number*** | | | | | | ***5:3***  ***Order the numbers in the range 0-1,000*** | | | ***5:4***  ***Recall the number of tens and hundreds in 100s and 1,000s*** | | | ***5:5***  ***Round three digit whole numbers to the nearest 10 or 100*** |
| * Number Fans * Number Hangman * Place Value Houses | * Counting * Nudge * Number Fans * Number Hangman * Rocket - Where will I fit? * Skip-counting on the Number Line | | | | | | * Rocket – Where Will I Fit? * Squeeze - Guess my Number * Who is the Richest? | | | * Close to 1000 * How Many Ten Dollar Bills? * Saving Hundreds * Slavonic Abacus * Zap | | | * Can You Guess? |
| ***5:6***  ***Recall the multiples of 100 that add up to 1,000*** | | ***5:7***  ***Identify the symbols for halves, quarters, thirds, fifths, and tenths including fractions greater than 1*** | | | ***5:8***  ***Order fractions with the same denominator*** | ***5:9***  ***Know the number 1, 10, and 100 before and after a given number in the range 0-1,000*** | | | ***5:10***  ***Recall addition and subtraction facts to 20*** | | | | ***5:11***  ***Recall groupings within 100*** |
| * Close to 1000 * Tens and Ones * Tens in Hundreds and More * Zap | | * Creating Fractions * Fraction Pieces * More Geoboard Fractions * Non-unit Fractions | | | * Fraction Circles * More Geoboard Fractions | * Number Hangman * Skip-counting on the Number Line | | | * Bowl a Fact * Bridges * Bridges Game * Comparisons * Dinosaur Stomp * What’s Hidden? | | | | * Adding in Parts * Traffic Lights |
| ***5:12***  ***Solve addition and subtraction problems by using doubles*** | | ***5:13***  ***Solve addition problems by using compatible numbers*** | | ***5:14***  ***Solve addition and subtraction problems by using place value partitioning*** | | | | ***5:15***  ***Solve addition and subtraction problems by compensating with tidy numbers*** | | | ***5:16***  ***Solve multiplication problems by using repeated addition*** | | |
| * Adding in Parts * Adding Tens | | * Compatible Numbers * Three or More at a Time * You Don't Need the Number | | * Adding in Parts * On and Off the Train * Saving Hundreds * Subtracting Tens and Ones * Zap | | | | * Jumping the Number Line * Problems like 23 + ? = 71 * Problems like ? + 29 = 81 | | | * Adding Tens * Animal Arrays * Bowl a Fact * Multidice Five * Three's Company | | |
| ***5:17***  ***Solve fives times tables by doubling and halving*** | | | ***5:18***  ***Find unit fractions of sets*** | | | | | ***5:19***  ***Find unit fractions of regions*** | | | | ***5:20***  ***Solve division problems by sharing*** | |
| * Doubling and Halving * Multiplication or out * Twos, Fives, and Tens | | | * Creating Fractions * Fraction Animals * Wafers | | | | | * Creating Fractions * Hot Stuff! * Playdough Fractions * Playdough Fractions – Feeding Animals * Playdough Fractions – Same but Different | | | | * Biscuit Boxes * Introducing Decimal Fraction Place Value * Pirate Crews | |

**NUMERACY PROJECT TASKS AND ACTIVITIES**

## Stage Six

* The following list of activities is to be used for a student who scores at Stage Six on the Numeracy Assessment Universal Screener.
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| --- | --- | --- | --- | --- |
| ***6:18***  ***Solve addition and subtraction problems by using place value*** | ***6:19***  ***Solve addition and subtraction problems by looking for compatible numbers*** | ***6:20***  ***Solve addition and subtraction problems by compensating with tidy numbers (including equal additions)*** | ***6:21***  ***Solve subtraction problems by using reversing*** | ***6:22***  ***Solve addition and subtraction problems using decomposition, leading to a written algorithm*** |
| * Checking Addition and Subtraction by Estimation * How many ten dollar notes? * Make It Addition | * Bridges * Make It Addition * Make Ten | * Bridges * Equal Additions * Near Doubles * When One Number Is Near a Hundred | * Don't Subtract - Add! * Problems like 37 + ? = 79 * Problems like 67 - ? = 34 * Reversing Addition * Subtraction to Subtraction * When Subtraction becomes Addition | * A Standard Written Form for Addition * Close to 100 * Decomposition - A Written Form of Subtraction * Mental or Written? |
| ***6:23***  ***Choose critically from a range of mental strategies to solve addition and subtraction problems*** | ***6:24***  ***Derive multiplication facts from 2, 5, and 10 times tables*** | ***6:25***  ***Change the order of the factors to make multiplication facts*** | ***6:26***  ***Multiply by 10s, 100s, 1000s and other multiples of 10*** | ***6:27***  ***Solve multiplication and division problems by using multiplication facts*** |
| * A Balancing Act * Checking Addition and Subtraction by Estimation * Make Ten * Subtraction in Parts | * A Little Bit More/ A Little Bit Less * Fun with Fives * Loopy * Number Mats and Number Fans | * Dividing: Thinking About Multiplication * Multiplication Madness * Turn Abouts | * Multiplying Tens * Sherpa (Tensing) | * Dividing: Thinking About Multiplication * Goesintas * In and Out * Long Jumps |
| ***6:28***  ***Solve problems using a combination of addition, subtraction, multiplication, division mental strategies*** | ***6:29***  ***Find fractions of a set using multiplication and division*** | ***6:30***  ***Find fractions of regions*** | ***6:31***  ***Solve division problems involving fractions*** |  |
| * Bowl a Fact * In and Out * Loopy * Mixing the methods - mental exercises for the day * Multiplication Smorgasboard * People's Ages | * Birthday cakes | * Fractional Blocks * More Geoboard Fractions | * Seed Packets |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***6:1***  ***Recall the multiplication and division facts for the multiples of 2,3,5, and 10*** | ***6:2***  ***Recall multiplication to 10 x 10, and the corresponding division facts*** | | | ***6:3***  ***Recall groupings of twos, threes, fives, and tens that are numbers to 100 and the resulting remainders*** | | | ***6:4***  ***Identify all of the numbers in the range***  ***0-1,000,000*** | | | ***6:5***  ***Say the forwards and backwards whole number word sequences by ones, tens, hundreds, and thousands in the range of 0-1,000,000 including finding numbers that are 10, 100, and 1,000 more or less than a given number*** | | | ***6:6***  ***Order whole numbers in the range of***  ***0-1,000,000*** |
| * Beep * Bowl a Fact * Dividing: Thinking About Multiplication * Using Calculators | * Beep * Bowl a Fact * Dividing: Thinking About Multiplication * Multiplication Cards | | | * Bead Strings * Beep * Dividing? Think about Multiplying First * Skip-counting on the Number Line | | | * Number Fans * Number Hangman * Place Value Houses | | | * Counting * Hundreds Boards and Thousands Book * Number Fans * Skip-counting on the Number Line | | | * Arrow Cards * Card Ordering * Hundreds Boards and Thousands Book * Number Fans * Number Line Flips * Who is the Richest? |
| ***6:7***  ***Read decimals with tenths, counts forwards and backwards in tenths, order decimals with tenths*** | | ***6:8***  ***Recall groupings within 1,000,***  ***(e.g. 240 + 760)*** | | | ***6:9***  ***Round whole numbers to the nearest 10, 100, or 1000*** | | | ***6:10***  ***Find out how many ones, tens, hundreds, and thousands are in all of a whole number*** | | | ***6:11***  ***Find the number of tenths and hundredths in decimals to two places*** | | ***6:12***  ***Round decimals with up to two places to the nearest whole number*** |
| * Card Ordering * Number Fans * Reading of Decimal Fractions * Rocket – Where Will It Fit? * Skip-counting on the Number Line * Squeeze – Guess My Number * Using Calculators | | * Estimation * Tens in Hundreds and More | | | * Sensible Rounding * Swedish Rounding | | | * Changing Money * How many Tens and Hundreds? * Large Numbers Roll Over * Tens in Hundreds and More * Zap | | | * Linking Money and Decimal Fractions | | * Linking Money and Decimal Fractions * Sensible Rounding * Swedish Rounding |
| ***6:13***  ***Identify symbols for any fractions, including tenths, hundredths, thousandths,***  ***and those greater than 1*** | | | ***6:14***  ***Ask the forwards and backwards word sequences for halves, quarters, thirds, fifths, and tenths*** | | | ***6:15***  ***Order and compare unit fractions*** | | | ***6:16***  ***Rename improper fractions as mixed numbers and position improper fractions on a number line*** | | | ***6:17***  ***Solve addition and subtraction problems by going through tens*** | |
| * Fraction Pieces * More Geoboard Fractions | | | * Card Ordering * Creating Fractions * Fraction Number Lines * More Geoboard Fractions | | | * Bead Strings * Card Ordering * Who Has More Cake? | | | * Fractions Greater than 1 * Trains | | | * Bridges * Subtraction in Parts | |

**NUMERACY PROJECT TASKS AND ACTIVITIES**

## Stage Seven

* The following list of activities is to be used for a student who scores at Stage Seven on the Numeracy Assessment Universal Screener.
* Teachers and interventionists should choose activities in the areas in which the student was unable to demonstrate mastery of a particular skill in order to create an “Intervention Prescription”.
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| --- | --- | --- | --- | --- | --- |
| ***7:1***  ***Know benchmarks for converting between common fractions, decimals and percentages*** | ***7:2***  ***Identify and order decimals to three places*** | ***7:3***  ***Say the number one–thousandth, one–hundredth, one–tenth, one, and ten, etc., before and after any given number*** | ***7:4***  ***Round whole numbers and decimals, with up to two places, to the nearest whole number, or tenth*** | ***7:5***  ***Find the number of tenths, hundredths, and one–thousandths in numbers of up to three decimal places*** | ***7:6***  ***Use multiplication to solve addition and subtraction problems*** |
| * Difficult Fractions to Percentages * Equivalent Fractions, Decimals, and Percentages * Estimating Percentages | * Bead Strings * Rocket - Where will I fit? * Who wins? * Whole Number Rounding | * Hundreds Boards and Thousands Book * More Reading of Decimal Fractions * Nudge * Number Fans * Place Value Houses * Skip-counting on the Number Line * Tens in Hundreds and More | * Rounding Decimals * Sensible Rounding * Swedish Rounding * Whole Number Rounding | * Measurement and Zeros | * Adding Sequences * Average Ability * Multiple Ways to Add and Subtract |
| ***7:7***  ***Use a range of strategies to solve problems that involve a combination of addition, subtraction, multiplication, and division*** | ***7:8***  ***Solve multiplication and division problems by using place value*** | ***7:9***  ***Solve multiplication and division problems by using tidy numbers*** | ***7:10***  ***Solve multiplication and division problems by using proportional adjustment*** | ***7:11***  ***Solve multiplication and division problems by splitting factors*** | ***7:12***  ***Solve division problems that involve remainders*** |
| * Divisibility Tests * Nines and Threes * Order of Operations * Using 0 | * Cross Products * Division with Tenths * Multiplication with Tenths | * Paper Power | * Cut and Paste * Doubling and Halving * Multiplying by 25 * Proportional Packets * The Equals Sign Again * The Royal Cooking Lessons | * Little Bites at Big Multiplications and Divisions | * Applying Remainders * Finding Remainders * Introducing Decimal Fraction Place Value * Pigeonholes * Remainders |

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| ***7:13***  ***Solve division problems that have fractional solutions*** | ***7:14***  ***Solve addition and subtraction problems with integers (positive and negative numbers)*** | ***7:15***  ***Solve problems that involve adding and subtracting fractions with related denominators*** | | ***7:16***  ***Solve problems that involve adding and subtracting decimals*** | | ***7:17***  ***Find fractions of regions using reunitizing, e.g. three quarters of a half is three eighths*** | |
| * Division with Tenths * Seed Packets * To Turn or Not to Turn | * 6 Minus 8 Does Work! * Bucket balance * Dollars and Bills * Dropping and rising temperatures * Hills and Dales | * Comparing Apples with Apples * Estimating with Fractions | | * Adding with Decimal Fractions * Candy Bars * How can Two Decimals so Ugly make one so Beautiful * Introducing Decimal Fraction Place Value * Mental or Written? * Pipe Music with Decimals * Subtraction with tenths | | * Fractional Blocks | |
| ***7:18***  ***Find fractions of whole number amounts using multiplication and division*** | ***7:19***  ***Estimate and find percentages of whole number amounts using benchmark percentages*** | ***7:20***  ***Find equivalent fractions*** | ***7:21***  ***Order fractions based on their magnitude*** | | ***7:22***  ***Solve simple rate problems using multiplication*** | | ***7:23***  ***Find equivalent ratios and express them as equivalent fractions*** |
| * Fractions Times Whole Numbers * Whole Numbers Times Fractions | * Estimating Percentages * 50% on is Not the Same as 50% off! * GST Rules * Inflation * Percentage Increases & Decreases in One Step * Percentages Problems in Two Steps * Reverse Percentage Problems | * Arrow Cards * Bead Strings * Card Ordering * Equivalent Fractions * Equivalent Fractions, Decimals, and Percentages * Fraction Number Lines * Fractions * Little Halves and Big Quarters * Packets of Lollies * The Same but Different | * Arrow Cards * Bead Strings * Card Ordering * Fractions * Little Halves and Big Quarters * Packets of Lollies * Super Liquorice * Who Gets More? * Who has more Cake? | | * Comparing by Finding Rates * Rates of Change * Seed Packets | | * Equivalent Fractions * Equivalent Fractions, Decimals, and Percentages * Fraction Number Lines * Fractions * Packets of Lollies * The Same but Different * Who has more Cake? |

**NUMERACY PROJECT TASKS AND ACTIVITIES**

## Stage Eight

* The following list of activities is to be used for a student who scores at Stage Eight on the Numeracy Assessment Universal Screener.
* Teachers and interventionists should choose activities in the areas in which the student was unable to demonstrate mastery of a particular skill in order to create an “Intervention Prescription”.
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| ***8:1***  ***Know what happens when a number is multiplied or divided by a power of 10*** | ***8:2***  ***Order fractions, decimals and percentages*** | ***8***  ***Identify and order decimals to three places (thousandths)*** | ***8:4***  ***Know benchmarks for converting between fractions, decimals, and percentages*** | | ***8:5***  ***Know simple powers of numbers to 10*** | | ***8:6***  ***Identify greatest common factors and least common multiples*** |
| * Digits on the Move * Zap | * Bead Strings * Equivalent Fractions, Decimals, and Percentages * Feeding Pets * Little halves and Big Quarters * Packets of Lollies * Rocket - Where will I fit? * Who Gets More? * Who has more Cake? * Who wins? | * Packets of Lollies * Rocket - Where will I fit? | * Difficult Fractions to Percentages * Estimating Percentages | | * Zap | | * Adding and Subtracting Fractions * Highest Common Factors * Lowest Common Multiples |
| ***8:7***  ***Solve problems by finding the factors of numbers*** | ***8:8***  ***Solve problems by finding the prime factors of numbers*** | ***8:9***  ***Solve problems that involve exponents and square roots*** | ***8:10***  ***Solve problems that involve adding and subtracting fractions*** | | ***8:11***  ***Solve multiplication and division problems that involve fractions*** | | ***8:12***  ***Solve multiplication and division problems that involve decimals*** |
| * Little Bites at Big Multiplications and Divisions | * Factor Trees * Prime Numbers * Recurring and Terminating Decimal Fractions * Systematic Prime Factorization * The Sieve of Eratosthenes | * Cubes and Cube Roots * Locating Square Roots * Powerful Numbers * Square Roots * Squaring * Writing Very Large Numbers | * Adding and Subtracting Fractions * Comparing Apples with Apples | | * A Fraction Times a Fraction * Brmmm! Brmmm! * Dividing Fractions * Estimation in Decimal Multiplication & Division Problems * Fractions Times Whole Numbers * Harder Division of Fractions * When Big Gets Smaller * When Small Gets Bigger * Whole Numbers Times Fractions | | * Division with Tenths * Folding fractions and decimals * Multiplication of Decimal Fractions * Multiplication with Tenths * Reversals with Multiplication and Division |
| ***8:13***  ***Estimate and find percentages of whole number and decimal amounts*** | ***8:14***  ***Solve problems involving integers*** | ***8:15***  ***Solve problems involving ratios*** | | ***8:16***  ***Solve problems involving rates*** | | ***8:17***  ***Use rounding to check the answers to multiplication and division problems*** | |
| * Estimating Percentages | * 6 Minus 8 Does Work! * Bucket balance * Dollars and Bills * Dropping and rising temperatures * Hills and Dales | * Combining Proportions * Extending Hotshots * Extending Mixing Colors * Hot Shots * Inverse Ratios * Mixing Colors * Ratios with Whole Numbers * Sharing in Ratios * Tree-mendous Measuring | | * Comparing by Finding Rates * Rates of Change | | * Checking Division by Estimation * Checking Multiplication by Estimation * Estimation in Decimal Multiplication & Division Problems * Sensible Rounding | |