# 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>.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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?
 |

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| --- |
| * 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
 |

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| --- |
| * 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?
 |

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|  |
| --- |
| * 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>.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***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>.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***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.
* 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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| --- | --- | --- | --- | --- |
| ***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”.
* These resources can be found here: <https://nzmaths.co.nz/resource-finder/numeracy>.

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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
 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***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”.
* These resources can be found here: <https://nzmaths.co.nz/resource-finder/numeracy>.

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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
 |