

SCOPE & SEQUENCE WITH STANDARD ALIGNMENT

- GRADES K-5 -FLORIDA



JOURNEY AND BONUS JOURNEY OBJECTIVES

Intro to ST Math

Game Name	Game Description
Build Parts	Put JiJi's parts into the outline.
JiJi Poses	Identify the view of JiJi indicated by an outline.
Fill Ground	Fill the outline(s) in the ground with the matching shape or the correct number of shapes.
Estimate On	Estimate on a number line the length of a given block.
Number Line	

Numbers and Objects to 5

Standards Coverage:

Recommended: K.NSO.1.1, K.NSO.1.2

Game Name	Game Description
Dot Count	Count the number of objects that appear in a set by clicking on each object once. Students learn to count to five.
Match Count	Match a given set of shaded circles with a set of empty circles. This game teaches counting and one-to-one correspondence.
How Many Legs	Provide the correct number of shoes for each set of creatures.
Dot Count	Count the number of objects that appear in a set by clicking on each object once.
Symbolic	
Ten Frame	Relate numerical symbols (1-5) to their representations with ten frames.
Count	

Subitizing

Game Name	Game Description
Subitizing Finger	Match the number of finance being held up. Teacher visual representations of numbers up to F
Patterns	Match the number of fingers being held up. Teaches visual representations of numbers up to 5.
Subitizing	Choose the die face corresponding to the number of fingers. Teaches visual representations of numbers up to 5.
Fingers and	
Dice	numbers up to 5.
Subitizing with	Choose the die face corresponding to the number of birds. Teaches visual representations of numbers
Dice	up to 6.
Double Sided	Choose the two die faces that represent the number of birds that appeared on each side of the
Subitizing	screen. Teaches visual representations of numbers up to 6.

Numbers and Objects to 10

Standards Coverage:

Recommended: K.NSO.1.1, K.NSO.1.2

Game Name	Game Description
Dot Count	Count the number of objects that appear in a set by clicking on each object once. Students learn to count to ten.
Alien Capture	Count up to 10 spaceships.
Match Count	Match a given set of shaded circles with a set of empty circles. This game teaches counting and one-to-one correspondence.
How Many Legs	Provide the correct number of shoes for each set of creatures.
Counting On to 10 Dots	Use visual models to learn the meaning of the numbers 1-10 and to put them in order. Count to 10 using numerals and visual representations.
Number Sticks	Learn the number symbols (1-9) and the quantities they represent.
Number Objects	Represent a numerical symbol (1-9) as a set of objects and provide the number that describes the cardinality of a given set of objects. This game helps students remember the meaning of the numerals.
Dot Count Symbolic	Count the number of objects that appear in a set by clicking on each object once and provide the number that matches the cardinality of the given sets. Students learn to count to ten.

Shapes

Standards Coverage:

Recommended: K.GR.1.1, K.GR.1.4

Game Name	Game Description
Roll Off	Identify the shapes that will roll away. Shapes that are not round get stuck and block JiJi's path.
Block Stack	Identify which objects can be stacked. Shapes that are not rectangular will roll away or cause the stack to topple.
Wedge	Identify the objects that can be used to move the barrier. Shapes that are not triangles will block JiJi's path since they cannot wedge themselves under the barrier.
Match Shape	Match shapes to their outlines to clear JiJi's path. This game introduces basic geometric shapes and the ideas of direction and position.
Prisms and Cylinders	Identify the shape of the base or side of a prism or cylinder.

Greater Than, Less Than, Equal To

Standards Coverage:

Recommended: K.NSO.1.4

Game Name	Game Description
Tug Boat	Rearrange the boats so that the bridge will open. This game teaches addition, subtraction, and the concept of equal amounts.
Order Sort	Order and compare two quantities between 0 and 10.
Parachute	Put JiJi in the correct starting place to parachute down to the ground using inclines and ladders.
More Less Parachute	Select a set of stacked objects that will be greater than, less than, or equal to a given set of stacked objects.
More Less	
Parachute Unstacked	Select a set of stacked objects that will be greater than, less than, or equal to a given set of unstacked objects.

Understanding Addition and Subtraction within 5

Standards Coverage:

Recommended: K.NSO.3.1, K.AR.1.3

Game Name	Game Description
Push Box	Identify the total according to the control of the
Addition	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Bird Expressions	Add the pumper of pour hirds that arrive to find the total pumper of hirds
Addition	Add the number of new birds that arrive to find the total number of birds.
Select Box	
Addition	Add using visual models and numerals.
Symbolic	
Push Box	Determine how many boxes are needed to create a bridge. Watch out for holes in the ground which
Subtraction	remove boxes. This game teaches subtraction via the removal of boxes by holes in the ground.
Bird Expressions	Identify how many birds are left on the wire after some of them fly away. This game relates numbers
Subtraction	to quantities and teaches subtraction.
Select Box	
Subtraction	Subtract using visual models and numerals.
Symbolic	

Composing Shapes

Standards Coverage:

Recommended: K.GR.1.5

Game Name	Game Description
Bricks	Arrange the shapes to create the composite shape shown.
Composite	Create a composite shape by arranging the shape parts.
Shapes	
Composite	Create a composite 3-dimensional shape by arranging the shape parts.
Shapes 3D	

Understanding Addition and Subtraction within 10

Standards Coverage:

Recommended: K.NSO.3.1, K.AR.1.3, K.NSO.3.2

Game Name	Game Description
Push Box	Identify the total according to the control of the
Addition	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Bird Expressions	Add the pumper of pour hirds that arrive to find the total pumper of hirds
Addition	Add the number of new birds that arrive to find the total number of birds.
Select Box	
Addition	Add using visual models and numerals.
Symbolic	
Push Box	Determine how many boxes are needed to create a bridge. Watch out for holes in the ground which
Subtraction	remove boxes. This game teaches subtraction via the removal of boxes by holes in the ground.
Bird Expressions	Identify how many birds are left on the wire after some of them fly away. This game relates numbers
Subtraction	to quantities and teaches subtraction.
Select Box	
Subtraction	Subtract using visual models and numerals.
Symbolic	

Making 10 and Number Pairs

Standards Coverage:

Recommended: K.AR.1.1, K.AR.1.2

Game Name	Game Description
Bouncing Shoes	Use the model to explore the concept of additively constructing a given number within 10.
Bouncing Shoes to 10	Use the model to make several additive pairs for a given number within 10.
Ten Frame	Make ten using ten frames.
Bouncing Shoes with Numbers	Using the symbols, additively decompose numbers within 10.
Partners	Decompose 10 as sums.

Numbers and Objects to 20

Standards Coverage:

Recommended: K.NSO.1.1, K.NSO.1.2

Game Name	Game Description
How Many Legs	Provide the correct number of shoes for each set of creatures.
Ten Frame to 20	Relate numerical symbols (up to 20) to their representations with ten frames. This game teaches correspondence between numbers and sets of objects and also provides an introduction to ones and tens place value concepts.
Dot Count	Identify the numeral that represents the set of data
Symbolic	Identify the numeral that represents the set of dots.
Alien Capture	Count up to 00 appearables
Symbolic	Count up to 20 spaceships.
Ten Frame to 20 Symbolic	Relate numerical symbols (up to 20) to their representations with ten frames. This game teaches correspondence between numbers and sets of objects and also provides an introduction to ones and tens place value concepts.
Alien Capture	
Counting On	Count up to 20 spaceships.
Symbolic	

Comparing Numbers

Standards Coverage:

Recommended: K.NSO.2.3

Game Name	Game Description
More Less	Select a set of stacked objects that will be greater than, less than, or equal to a given number that is
Parachute	then represented as a set of stacked objects. This game displays the meaning of ordering numbers
Symbolic	and provides a visual understanding of the greater than, less than, and equal to symbols.
More Less	Select a number that will be greater than, less than, or equal to a given number. This game displays the meaning of ordering numbers by representing the numbers as sets of objects and provides a
Parachute	
Multiple Choice	visual understanding of the greater than, less than, and equal to symbols.
Least Most with	Identify the smallest or largest gumber in a set using gumber line separate
Number Line	Identify the smallest or largest number in a set using number line concepts.
Order Sort	Compare and order two whole numbers written symbolically between 1 and 10.
Symbolic	
Least Most	Identify the smallest or largest number in a set using number line concepts.

Introduction to the Number Line

Standards Coverage:

Recommended: K.NSO.2.3

Game Name	Game Description
Bird Expressions	Provide the instance of a whole number within 20 on the number line using the model.
Number Line	
Journey	Move left and right on the number line to locate the given number.
Number Line	Estimate the location of a whole number within 20 on the number line with various hash marks and
Trap	labelled numbers.
Number Line	Plot a whole number within 20 on the number line by first indicating if the number is less than or
Zoom	greater than 10.
Missing Tick	Estimate the location of a whole number within 20 on the number line with various hash marks and labeled numbers.
Marks	
Missing Tick	
Marks Bubble	Write numerals within 20 on the number line.
Select	

Counting to 100

Standards Coverage:

Recommended: K.NSO.2.1, K.NSO.2.3

Game Name	Game Description
Number Line	Mayo left and right on the number line to legate the given number
Journey	Move left and right on the number line to locate the given number.
Number Line	Zeem in an the number line to least the given number
Journey Zoom	Zoom in on the number line to locate the given number.
Counting On	Count forward to one hundred.
Counting On	Count forward to one hundred and backward from one hundred.
and Back	

Foundations of Place Value

Standards Coverage:

Recommended: K.NSO.2.2

Game Name	Game Description
Alien Capture	
Mothership	Count up to 20 spaceships and represent the number in place value notation using tens and ones.
Alien Capture	Denves ont whole numbers up to 20 using visual models based on place value
with Numbers	Represent whole numbers up to 20 using visual models based on place value.
Alien Capture	The small spaceships contain one alien each and the larger ones contain 10. Represent the total
with Numerals	number (up to 20) in place value notation using tens and ones.
Ten Frame	Decompose a number less than 20 into two parts. Record the decomposition using a visual equation
Counting	
Ten Frame	Decompose a number less than 20 into two parts. Record the decomposition using a numeric equation.
Counting	
Symbolic	

Measurable Attributes

Standards Coverage:

Recommended: K.M.1.1, K.M.1.2

Game Name	Game Description
Swap Sort	Order a set of rectangles from smallest to largest or largest to smallest by swapping their positions.
Two Item Slinky	Order pairs of objects by their weights. Students can use a balance to compare pairs they are unsure of.
Three Item Slinky	Compare and order three objects by their weights using a balance.
Indirect Measurement	Compare the lengths of two objects by placing them vertically in ascending or descending order.

Measurement Concepts

Standards Coverage:

Recommended: K.M.1.3

Game Name	Game Description
Swap Sort	Order a set of rectangles from smallest to largest or largest to smallest by swapping their positions.
Order Sort	Order a set of rectangles from smallest to largest or largest to smallest by clicking on each rectangle in order from smallest to largest or largest to smallest.
Measure It with Objects	Measure the length of a gap using various objects as the unit of measurement by lining up the object properly.
Measure It Multiple Choice	Measure and determine the number of objects needed to measure a gap.

Addition and Subtraction Facts within 5

Standards Coverage:

Recommended: K.NSO.3.2

Game Name	Game Description
Select Box	Add using visual models and numerals.
Symbolic	
Basic Facts	Practice addition and subtraction facts using visual models.
Ten Frame	Learn numerals and addition facts using ten frames.
Symbolic	

Sorting and Classifying

Standards Coverage:

Related: K.GR.1.2, K.DP.1.1

Game Name	Game Description
Paper JiJi	To put JiJi together, locate the square on the grid determined by the given horizontal and vertical positions.
Shapes and Patterns Paper JiJi	To put JiJi together, locate the square on the grid determined corresponding to the given shape and pattern.
Attribute Grid Two Attributes	Identify two attributes (size, shape, or color) of the given shape by placing the shape in the appropriate box in the grid.

Analyzing Shapes

Standards Coverage:

Recommended: K.GR.1.2

Related: K.DP.1.1

Game Name	Game Description
How Many	Identify the number of vertices on two dimensional change
Corners	Identify the number of vertices on two-dimensional shapes.
Find the Pair	Given a set of two-dimensional shapes, identify the two that have the same number of vertices.
How Many Sides	Identify the annual or of sides an until see on two discountines and about
or Corners	Identify the number of sides or vertices on two-dimensional shapes.
Single Slide	See how various attributes of shapes are changed when different transformations are applied.
Transform	
Attribute	Choose the correct attribute to change (shape, color, or size) to transform the first shape into the
Transform	second. This game teaches the idea of a function in a visual way.

Math Challenge K

Game Name	Game Description
Number Line Trap	Estimate the location of a whole number within 20 on the number line with various hash marks and labelled numbers.
Tug Boat	Rearrange the boats so that the bridge will open. This game teaches addition, subtraction, and the concept of equal amounts.
Tug Boat with Pictures	Rearrange the numbers so that the sums on each side are the same. This game teaches addition, subtraction, and the concept of equal amounts.
Push Box	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Pie Monster Addition	Use the model to solve addition problems. Includes missing addend.
Pie Monster Subtraction	Use the model to solve subtraction problems. Includes missing subtrahend or minuend.
Treasure Hunt with Boxes	Help JiJi navigate around the map to find the correct destination. This game helps develop spatial reasoning by working with position and direction concepts.
Attribute Grid	Identify attributes of an object including size, color, and shape. Choose the location on a two-dimensional grid that corresponds to a pair of attributes describing an object.
Estimate Length	Estimate length of an object given the distance of platform from end of pathway. Iterate a unit ruler to help estimation accuracy.
Addition with Unknowns	Solve addition problems with unknowns in varying positions and on either side of the equal sign.

Challenge K

Game Name	Game Description
Venn Space	Place the object in the correct section of the Venn diagram according to its attributes.
Venn Space	
Pick Shape	Identify the object that has the attributes corresponding to a particular section of a Venn diagram.
Attribute	Choose the correct attribute to change (shape, color, or size) to transform the first shape into the
Transform	second. This game teaches the idea of a function in a visual way.
Bird Brain	Find birds in a grid after a sequence of transformations.
Ice Caves	Identify lines of symmetry in two-dimensional shapes.
Dot Shapes	Connect dots to form shapes which will fill holes in the ground.
Pattern Monkey	Identify and extend patterns of different geometric shapes.
Pattern Monkey	Create repeating patterns of varying length with different geometric shapes. Identify repeating
2	patterns of varying length in a sequence of geometric shapes.
Upright JiJi	Find a sequence of rotations to move JiJi into an upright position.
Kick Box	Use lasers and mirrors to move the spheres out of the way so JiJi can pass.

Exploring Patterns

Game Name	Game Description
Pattern Monkey	Create repeating patterns of two-dimensional shapes.
Intro	
Pattern Monkey	Identify repeating patterns of a sequence of two, three or four geometric shapes.
Pattern Walkway	Fit the shapes together to identify and extend a pattern. This will build a bridge for JiJi to walk across.
with Shapes	

Advanced Patterns

Game Name	Game Description
Pattern Monkey	Create repositing netterns of two dimensional chance
Intro	Create repeating patterns of two-dimensional shapes.
Pattern Monkey	Identify repeating patterns of a sequence of two, three or four geometric shapes.
Pattern Walkway	Fit the change together to identify and extend a nettern. This will build a bridge for life to walk garage
with Shapes	Fit the shapes together to identify and extend a pattern. This will build a bridge for JiJi to walk across.
Pattern	Extend repeating patterns in various directions. Here the objects all have the same shape; the
Directions	patterns are based on color, orientation, and rotation.
Pattern	
Directions	Extend the patterns in various directions by filling in the boxes. The patterns are based on the color
Comparing and	and orientation of the objects.
Filling	
Pattern Walkway	Build a bridge for JiJi by fitting the shapes together to make a pattern. Now the shapes are labeled
with Letters	with letters.

Position

Game Name	Game Description
Match Position	Remove the ball that is blocking JiJi's path. This game teaches orientation and relative position in two dimensions.
Match Shape	Match shapes to their outlines to clear JiJi's path. This game introduces basic geometric shapes and the ideas of direction and position.
Match Direction Top View	Identify which way JiJi needs to turn to remove the ball. This game teaches orientation and relative position in two dimensions.
Upright JiJi	Create a series of rotations needed to change JiJi's current orientation to a new orientation. This game strengthens the ability to visually manipulate objects.

OPTIONAL OBJECTIVES

Technology Interaction

Game Name	Game Description
Defog JiJi	This game teaches students how to use a mouse, while clearing the fog away from JiJi.

STANDARDS INDEX

NSO - Number Sense and Operations

Standard	Objective(s)
K.NSO.1.1	Given a group of up to 20 objects, count the number of objects in that group and represent the number of objects with a written numeral. State the number of objects in a rearrangement of that group without recounting.
	Recommended: Numbers and Objects to 5; Numbers and Objects to 10; Numbers and Objects to 20
K.NSO.1.2	Given a number from 0 to 20, count out that many objects.
	Recommended: Numbers and Objects to 5; Numbers and Objects to 10; Numbers and Objects to 20
K.NSO.1.4	Compare the number of objects from 0 to 20 in two groups using the terms less than, equal to or greater than.
	Recommended: Greater Than, Less Than, Equal To
K.NSO.2.1	Recite the number names to 100 by ones and by tens. Starting at a given number, count forward within 100 and backward within 20.
	Recommended: Counting to 100
K.NSO.2.2	Represent whole numbers from 10 to 20, using a unit of ten and a group of ones, with objects, drawings and expressions or equations.
	Recommended: Foundations of Place Value
	continued on next page

NSO - Number Sense and Operations (continued)

Standard	Objective(s)
K.NSO.2.3	Locate, order and compare numbers from 0 to 20 using the number line and terms less than, equal to or greater than.
	Recommended: Comparing Numbers; Introduction to the Number Line; Counting to 100
K.NSO.3.1	Explore addition of two whole numbers from 0 to 10, and related subtraction facts.
	Recommended: Understanding Addition and Subtraction within 5; Understanding Addition and Subtraction within 10
K.NSO.3.2	Add two one-digit whole numbers with sums from 0 to 10 and subtract using related facts with procedural reliability.
	Recommended: Understanding Addition and Subtraction within 10; Addition and Subtraction Facts within 5

AR - Algebraic Reasoning

Standard	Objective(s)
K.AR.1.1	For any number from 1 to 9, find the number that makes 10 when added to the given number.
	Recommended: Making 10 and Number Pairs
K.AR.1.2	Given a number from 0 to 10, find the different ways it can be represented as the sum of two numbers.
	Recommended: Making 10 and Number Pairs
K.AR.1.3	Solve addition and subtraction real-world problems using objects, drawings or equations to represent the problem.
	Recommended: Understanding Addition and Subtraction within 5; Understanding Addition and Subtraction within 10

M - Measurement

Standard		Objective(s)
	K.M.1.1	Identify the attributes of a single object that can be measured such as length, volume or weight.
		Recommended: Measurable Attributes
	K.M.1.2	Directly compare two objects that have an attribute which can be measured in common. Express the comparison using language to describe the difference.
		Recommended: Measurable Attributes
	K.M.1.3	Express the length of an object, up to 20 units long, as a whole number of lengths by laying non-standard objects end to end with no gaps or overlaps.
		Recommended: Measurement Concepts

GR - Geometric Reasoning

Standard Objective(s)

K.GR.1.1 Identify two- and three-dimensional figures regardless of their size or orientation. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders.

Recommended: Shapes

K.GR.1.2 Compare two-dimensional figures based on their similarities, differences and positions. Sort two-dimensional figures based on their similarities and differences. Figures are limited to circles, triangles, rectangles and squares.

Recommended: Analyzing Shapes

Related: Sorting and Classifying

K.GR.1.4 Find real-world objects that can be modeled by a given two- or three-dimensional figure. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders.

Recommended: Shapes

K.GR.1.5 Combine two-dimensional figures to form a given composite figure. Figures used to form a composite shape are limited to triangles, rectangles and squares.

Recommended: Composing Shapes

DP - Data Analysis and Probability

Standard Objective(s) K.DP.1.1 Collect and sort objects into categories and compare the categories by counting the objects in each category. Report the results verbally, with a written numeral or with drawings. Related: Sorting and Classifying; Analyzing Shapes

JOURNEY AND BONUS JOURNEY OBJECTIVES

Intro to ST Math

Game Name	Game Description
Build Parts	Put JiJi's parts into the outline.
JiJi Poses	Identify the view of JiJi indicated by an outline.
Fill Ground	Fill the outline(s) in the ground with the matching shape or the correct number of shapes.
Estimate On	Estimate on a number line the length of a given block.
Number Line	

Addition and Subtraction Within 10

Standards Coverage:

Recommended: 1.NSO.2.2, 1.AR.1.2

Game Name	Game Description
Push Box	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Addition	, , ,
Select Box	
Addition	Add using visual models and numerals.
Symbolic	
Ten Frame	Direction addition facts using the frames
Addition	Practice addition facts using ten frames.
Push Box	Determine how many boxes are needed to create a bridge. Watch out for holes in the ground which
Subtraction	remove boxes. This game teaches subtraction via the removal of boxes by holes in the ground.
Pie Monster	Use the model to solve subtraction problems.
Push Box	Father at the historia of bloods history added an exhibit at
Estimation	Estimate the height of blocks being added or subtracted.
Basic Facts	
Subtraction	Practice addition and subtraction facts using visual models.
Symbolic	
Pie Monster	Lies the model to calve subtraction problems
Symbolic	Use the model to solve subtraction problems.

Measurement Concepts

Standards Coverage:

Recommended: 1.M.1.1, 1.M.1.2

Game Name	Game Description
Order Sort	Order a set of rectangles from smallest to largest or largest to smallest by clicking on each rectangle in order from smallest to largest or largest to smallest.
Indirect	Compare the lengths of two or three objects by placing them vertically in ascending or descending
Measurement	order.
Estimate Length	Estimate length of an object given the distance of platform from end of pathway. Iterate a unit ruler to help estimation accuracy.
Measure Length	Measure length of one or two objects by iterating a unit ruler and select length of gap on number line.

Number Pairs and Making 10

Standards Coverage:

Recommended: 1.NSO.2.2, 1.AR.1.2

Game Name	Game Description
Tug Boat	Rearrange the boats so that the bridge will open. This game teaches addition, subtraction, and the concept of equal amounts.
Bouncing Shoes	Use the model to make several additive pairs for a given number within 10.
Bouncing Shoes with Numbers	Using symbols, additively decompose numbers within 10.
Building Blocks	Fill in the missing addend to make a sum of 10.
Partners	Decompose 10 as sums.

Addition and Subtraction with Unknowns

Standards Coverage:

Recommended: 1.NSO.2.2, 1.AR.1.2

Game Name	Game Description
Pie Monster	Lies the model to calve addition problems. Includes missing addend
Addition	Use the model to solve addition problems. Includes missing addend.
Pie Monster	Lies the model to calve subtraction problems. Includes missing subtrahend or missions
Subtraction	Use the model to solve subtraction problems. Includes missing subtrahend or minuend.
Push Box	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Addition with	
Unknowns	Solve addition problems with unknowns in varying positions and on either side of the equal sign.
Subtraction with	Calve subtraction problems with unknowns in varying positions and an either side of the equal sign
Unknowns	Solve subtraction problems with unknowns in varying positions and on either side of the equal sign.
Equations with	Model and solve mixed operation problems with unknowns in varying positions and on either side of
Unknowns	the equal sign.
Push Box	Identify the total number of house. This same to along addition by combining steels of house
Symbolic	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Missing Addend	Select the other addend to make a given sum.

Addition, Subtraction and Equations

Standards Coverage:

Recommended: 1.AR.1.1

Game Name	Game Description
Bird Expressions	Model two-step addition and subtraction of single digit numbers.
Build Expression	Model addition or subtraction of whole numbers within 20 and find the sum or difference.
Meaning of	Determine if equations are true or false and represent symbolically by choosing the "equal" or "does
Equal Sign	not equal" sign.

Composite Shapes

Standards Coverage:

Recommended: 1.GR.1.3

Game Name	Game Description
Dot Shapes	Connect dots to form shapes which will fill holes in the ground.
Bricks	Arrange the shapes to create the composite shape shown.
Composite	Create a composite shape by arranging the shape parts.
Shapes 2D	
Composite	Create a composite 3D shape by arranging the given 3D shapes.
Shapes 3D	

Counting to 120

Standards Coverage:

Recommended: 1.NSO.1.1, 1.NSO.1.4, 1.NSO.1.2

Game Name	Game Description
Number Line	Locate a given number within 120 on a number line.
Journey	Locate a given number within 120 on a number line.
Number Line	Zeem in an the number line to leaste the given number
Journey Zoom	Zoom in on the number line to locate the given number.
Counting On	Count forward to one hundred.
Number Line	Estimate the location of whole numbers (1-120) on the number line. The student is also introduced to
Trap	place value concepts with ones and tens.
Counting On	Count on an healt from a minor consumo of mumbers up to 100
and Back	Count on or back from a given sequence of numbers up to 120.

Counting by Tens

Standards Coverage:

Recommended: 1.NSO.1.1, 1.NSO.2.3

Game Name	Game Description
Hundreds Pit	Skip count from a given number less than 90 by various amounts.
Counting by	
Ones on the	Use a hundreds chart to count on by ones.
Hundreds Chart	
Counting by	
Tens on the	Use a hundreds chart to count on by tens.
Hundreds Chart	
Counting by	
Tens on the	Add multiple tens to a given number where the sum is less than 100.
Number Line	
Ten Frame	December a number less than 20 into two nexts. December the decemberities using a viewal equation
Counting	Decompose a number less than 20 into two parts. Record the decomposition using a visual equation
Ten Frame	December 1 and 1 a
Counting	Decompose a number less than 20 into two parts. Record the decomposition using a numeric equation.
Symbolic	equation.

Counting with Groups

Standards Coverage:

Recommended: 1.NSO.1.3

Game Name	Game Description
Alien Capture	Separately, count up to 20 alien ships or 10 motherships.
Motherships and	
Aliens	Count up to 10 motherships and then alien ships together in an organized arrangement.
Motherships	Determine the number of motherships needed and how many alien ships are still left when counting a
Groups	group of alien ships and record the result on ten frames.
Motherships and	
Aliens Bubble	Count up to 10 motherships and then alien ships together in an organized arrangement. Record the answer numerically.
Select	answer numerically.
Motherships	Determine the number of motherships needed and how many alien ships are still left when counting a group of alien ships and record the result numerically.
Groups Bubble	
Select	

Place Value Concepts

Standards Coverage:

Recommended: 1.NSO.1.3

Game Name	Game Description
Multiple Choice Petals	Represent ones, tens and hundreds using words, numerals and visual models.
Pulling Petals	Gain an understanding of place value by transforming the pile of petals into tens (flowers with 10 petals each) ones (single petals).
Bee Petals	Represent numbers using a place value based flower petal model. In some levels, students determine the order of magnitude, given a number and a pile of petals (e.g. given the number 7, identify the size of the pile as 7 ones, 7 tens, or 7 hundreds).
Petals Place Value	Given a one- or two-digit whole number, identify the number of tens and the number of ones.
Petals Bubble Select	Find the total number of petals by counting the flowers (tens) and single petals (ones) and then filling in the tens and ones places with the correct numerals.
How Many Petals	Write the numeral for how many petals are in a given pile.

Comparing Two-Digit Numbers

Standards Coverage:

Recommended: 1.NSO.1.4

Game Name	Game Description
Order Sort	Order sets of stacked objects from smallest to largest or largest to smallest.
Order Sort	From amplicat to lowest and within digit numbers that above the same digit is either place value
Same Digits	From smallest to largest, order two-digit numbers that share the same digit in either place value.
Order Sort Two	From amplicat to largest arder two digit numbers
Digit Numbers	From smallest to largest, order two-digit numbers.
Numberline Trap	Use estimation and an understanding of place value to plot whole numbers (up to two digits) on a number line.
Least or Most	Identify the smallest or largest number in a set using number line concepts.
Comparison	Order sets of objects and whole numbers using the symbols for less than, greater than, and equal to.
Signs	
Number	Order whole numbers using both methods based on place value and the symbols for less than,
Comparison	greater than, and equal to.

Adding and Subtracting by Tens

Standards Coverage:

Recommended: 1.NSO.2.4, 1.NSO.2.5, 1.NSO.2.3

Game Name	Game Description
Petals Place	
Value	Given a one- or two-digit whole number, identify the number of tens and the number of ones.
Add or Subtract	Add and subtract 1 and 10 from two-digit whole numbers using mental arithmetic.
by 1 or 10	
Add or Subtract	Add and subtract 1 and 10 from two-digit whole numbers using mental arithmetic.
Single Place	
Numbers	
Table Directions	Add and subtract one-digit and two-digit whole numbers using a number table.
Addition and	Add two-digit whole numbers and mark the sum on a number line. Most of the sums and differences involve numbers that are multiples of 5 or 10.
Subtraction on	
the Number Line	

Equal Shares and Partitioning

Standards Coverage:

Recommended: 1.FR.1.1

Game Name	Game Description
Equal Areas	Determine which figure is divided up equally based on area.
Equal Division	Divide blocks into equal parts.
Match Partitions	Match the partitioning of two rectangular blocks.
Fraction Bricks	Represent the same length using different partitionings.
Alien Bridge	Combine the shaded parts of two equivalent wholes together.
Balance Pies	Match the area of one side of a balance using parts of a whole.
Pie Monster	Implicitly add two shaded regions together.

Equal Shares and Partitioning Symbolic

Standards Coverage:

Recommended: 1.FR.1.1

Game Name	Game Description
Fraction of	Both symbolically and linguistically state what portion of the shape is shaded.
Shape Symbolic	
Crank Pies	Match the shaded region to the terms 'ones', 'halves', and 'fourths'. Determine how many of these are given.
Match Fraction	Represent a given fraction using a visual model by first dividing a whole into equal parts and then
Symbolic	shading the correct number of parts.

Shape Differences

Standards Coverage:

Recommended: 1.GR.1.1

Related: 1.GR.1.2, 1.GR.1.4

Game Name	Game Description
Pick Geometric	Identify the number of edges and vertices on two dimensional change
Shapes 2D	Identify the number of edges and vertices on two-dimensional shapes.
Shape Names	Identify the given polygon.
Pick Geometric	
Shapes 2D	Learn the names and number of edges of different polygons.
Symbolic	
Prisms and	Pick the shape that is the base of a given prism.
Cylinders	
Pick Geometric	
Shapes 3D2D	Identify the number of edges and vertices on two-dimensional shapes.
with Vertices	

Addition and Subtraction Within 20

Standards Coverage:

Recommended: 1.NSO.2.2, 1.NSO.2.1

Game Name	Game Description
Ten Frame	Practice addition facts using ten frames.
Addition	
Ten Frame	Practice addition facts using ten frames.
Addition 2	
Basic Facts	Practice addition and subtraction facts using visual models.
Ten Frame	Practice addition facts using ten frames.
Subtraction	

Using Place Value to Add

Standards Coverage:

Recommended: 1.NSO.2.4

Game Name	Game Description
Petals Addition	This game introduces the standard algorithm for addition using a visual model, with ones represented as single petals and tens represented as flowers.
Petals Addition Method	Use the standard algorithm to add two-digit whole numbers without regrouping. Verify with the model.

Two-Digit Number Words

Standards Coverage:

Recommended: 1.NSO.1.2

Game Name	Game Description
Place Value Builder	Identify the digit values of given whole numbers using models based on place value. This game covers expanded notation and place value concepts up to the tens place while enforcing the skills of reading and writing whole numbers.
Expanded Form	Provide a number when given its representation in expanded notation. This game also covers place value concepts to the tens place while enforcing the skills of reading and writing whole numbers.
Numbers to Words	Convert two-digit whole numbers from symbols to words.
Words to Numbers	Convert two-digit whole numbers from words to symbols.

Telling Time

Standards Coverage:

Recommended: 1.M.2.1

Game Name	Game Description
Hours and	Choose the correct hand corresponding to hours, minutes, and seconds on an analog clock. The
Minutes	game prepares students to tell and record time on an analog clock.
Telling Time	Students place the hands on a clock in the correct position to represent time to the hour and half-hour on an analog clock.
Time on a Line	Read an analog clock to the hour and half-hour and select the correct time on a number line. This game helps to build a foundation for the idea of elapsed time presented in later grades.
Hours and	Choose the correct location on a digital clock that displays the hours, minutes, and seconds. The
Minutes, Digital	game prepares students to tell and write time on a digital clock.
Telling Time,	Students read an analog clock to the hour and half-hour and record the time on a digital clock.
Digital	

Organizing Data

Standards Coverage:

Recommended: 1.DP.1.1, 1.DP.1.2

Game Name	Game Description
Paper JiJi	To put JiJi together, locate the square on the grid determined by the given horizontal and vertical positions.
Attribute Grid	Identify attributes of an object including size, color, and shape. Choose the location on a two-dimensional grid that corresponds to a pair of attributes describing an object.
Shapes and Attributes Paper JiJi	Graph the given data by locating the type of shape on the vertical axis and the number of shapes on the horizontal axis.
Tally Marks	Use tally marks to record and represent the numbers and objects from one to ten.
Bar Graph Bridge	Construct bar graphs for a data set given as single observations or in a table.

Math Challenge 1

Game Name	Game Description
Pie Monster	Use the model to solve two-step addition problems. Includes missing addend.
Push Box	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Missing Quantity	identity the total number of boxes. This game teaches addition by combining stacks of boxes.
Measurement	Fetimate or measure lengths of chicats peopled to create a platform distance
Estimation	Estimate or measure lengths of objects needed to create a platform distance.
Tug Boat with	Rearrange the numbers so that the sums on each side are the same. This game teaches addition,
Pictures	subtraction, and the concept of equal amounts.
Mice Island	Fill in the missing number to make the equation true. This game teaches addition and subtraction of one- and two-digit whole numbers.
Balance Pies	Match the area of one side of a balance using parts of a whole.
Venn Space	Identify the object that has the attributes corresponding to a particular section of a Venn diagram.
Venn Space	Identify the object that has the attributes corresponding to a particular section of a Venn diagram.
Pick Shape	
Bricks	Arrange the shapes to create the composite shape shown.
Alien Bridge	Combine the shaded parts of two equivalent wholes together.
Bouncing Shoes	Determine how many instances of a given animal are needed to fill the boots.

Challenge 1

Game Name	Game Description
Dot Shapes	Connect dots to form shapes which will fill holes in the ground.
Attribute	Choose the correct attribute to change (shape, color, or size) to transform the first shape into the
Transform	second. This game teaches the idea of a function in a visual way.
Ice Caves	Identify lines of symmetry in two-dimensional shapes.
Bird Brain	Find birds in a grid after a sequence of transformations.
Big Seed	Find a sequence of actions that will unfold the given image into the desired shape.
Kick Box	Use lasers and mirrors to move the spheres out of the way so JiJi can pass.
Upright JiJi	Find a sequence of rotations to move JiJi into an upright position.

OPTIONAL OBJECTIVES

Addition and Subtraction Facts

Game Name	Game Description	
Push Box	Practice addition facts using visual block representations for sums under 10.	
Addition Facts	Practice addition facts using visual block representations for sums under 10.	
Select Box	Practice addition facts using alternate visual block representations for sums under 10.	
Addition Facts	Fractice addition facts using afternate visual block representations for sums under 10.	
Basic		
Subtraction	Practice subtraction facts under 10 using visual block representations.	
Facts		
Select Box		
Subtraction	Practice subtraction facts under 10 using alternate block representations.	
Facts		
Ten Frame	Practice addition facts to 20 using ten frames.	
Addition Facts	Tractice addition facts to 20 dsing ten fames.	
Ten Frame		
Subtraction	Practice subtraction facts using ten frames.	
Facts		
Mixed Facts	Practice addition and subtraction facts using visual block representations.	
Addition and		
Subtraction	Practice addition and subtraction facts using a number line representation.	
Facts on the	rractice addition and subtraction facts using a number line representation.	
Number Line		
Add Facts	Practice addition facts using a tricky inverted format.	
Bridge	Fractice addition facts using a tricky inverted format.	
Concentration	Practice multiple addition and subtraction facts quickly in sequence.	
Numbers	Fractice multiple addition and subtraction facts quickly in sequence.	

STANDARDS INDEX

NSO - Number Sense and Operations

Standard	Objective(s)
1.NSO.1.1	Starting at a given number, count forward and backwards within 120 by ones. Skip count by 2s to 20 and by 5s to 100.
	Recommended: Counting to 120; Counting by Tens
1.NSO.1.2	Read numbers from 0 to 100 written in standard form, expanded form and word form. Write numbers from 0 to 100 using standard form and expanded form.
	Recommended: Counting to 120; Two-Digit Number Words
1.NSO.1.3	Compose and decompose two-digit numbers in multiple ways using tens and ones. Demonstrate each composition or decomposition with objects, drawings and expressions or equations.
	Recommended: Counting with Groups; Place Value Concepts
1.NSO.1.4	Plot, order and compare whole numbers up to 100.
	Recommended: Counting to 120; Comparing Two-Digit Numbers
1.NSO.2.1	Recall addition facts with sums to 10 and related subtraction facts with automaticity.
	Recommended: Addition and Subtraction Within 20
1.NSO.2.2	Add two whole numbers with sums from 0 to 20, and subtract using related facts with procedural reliability.
	Recommended: Addition and Subtraction Within 10; Number Pairs and Making 10; Addition and Subtraction with Unknowns; Addition and Subtraction Within 20

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NSO - Number Sense and Operations (continued)

Standard	Objective(s)
1.NSO.2.3	Identify the number that is one more, one less, ten more and ten less than a given two-digit number.
	Recommended: Counting by Tens; Adding and Subtracting by Tens
1.NSO.2.4	Explore the addition of a two-digit number and a one-digit number with sums to 100.
	Recommended: Adding and Subtracting by Tens; Using Place Value to Add
1.NSO.2.5	Explore subtraction of a one-digit number from a two-digit number.
	Recommended: Adding and Subtracting by Tens

FR - Fractions

Standard		Objective(s)
	1.FR.1.1	Partition circles and rectangles into two and four equal-sized parts. Name the parts of the whole using appropriate language including halves or fourths.
		Recommended: Equal Shares and Partitioning; Equal Shares and Partitioning Symbolic

AR - Algebraic Reasoning

Standard Objective(s)

1.AR.1.1 Apply properties of addition to find a sum of three or more whole numbers.

Recommended: Addition, Subtraction and Equations

1.AR.1.2 Solve addition and subtraction real-world problems using objects, drawings or equations to represent the problem.

Recommended: Addition and Subtraction Within 10; Number Pairs and Making 10; Addition and Subtraction with Unknowns

M - Measurement

Standard Objective(s)

1.M.1.1 Estimate the length of an object to the nearest inch. Measure the length of an object to the nearest inch or centimeter.

Recommended: Measurement Concepts

1.M.1.2 Compare and order the length of up to three objects using direct and indirect comparison.

Recommended: Measurement Concepts

1.M.2.1 Using analog and digital clocks, tell and write time in hours and half-hours.

Recommended: Telling Time

GR - Geometric Reasoning

Standard Objective(s)

1.GR.1.1 Identify, compare and sort two- and three-dimensional figures based on their defining attributes. Figures are limited to circles, semi-circles, triangles, rectangles, squares, trapezoids, hexagons, spheres, cubes, rectangular prisms, cones and cylinders.

Recommended: Shape Differences

1.GR.1.2 Sketch two-dimensional figures when given defining attributes. Figures are limited to triangles, rectangles, squares and hexagons.

Related: Shape Differences

1.GR.1.3 Compose and decompose two- and three-dimensional figures. Figures are limited to semi-circles, triangles, rectangles, squares, trapezoids, hexagons, cubes, rectangular prisms, cones and cylinders.

Recommended: Composite Shapes

1.GR.1.4 Given a real-world object, identify parts that are modeled by two- and three-dimensional figures. Figures are limited to semi-circles, triangles, rectangles, squares and hexagons, spheres, cubes, rectangular prisms, cones and cylinders.

Related: Shape Differences

DP - Data Analysis and Probability

Standard		Objective(s)
	1.DP.1.1	Collect data into categories and represent the results using tally marks or pictographs.
		Recommended: Organizing Data
	1.DP.1.2	Interpret data represented with tally marks or pictographs by calculating the total number of data points and comparing the totals of different categories.
		Recommended: Organizing Data

JOURNEY AND BONUS JOURNEY OBJECTIVES

Intro to ST Math

Game Name	Game Description
Build Parts	Put JiJi's parts into the outline.
JiJi Poses	Identify the view of JiJi indicated by an outline.
Fill Ground	Fill the outline(s) in the ground with the matching shape or the correct number of shapes.
Estimate On	
Number Line	Estimate on a number line the length of a given block.

Addition and Subtraction Situations

Standards Coverage:

Related: 2.AR.1.1

Game Name	Game Description
Push Box	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Pie Monster	Use the model to solve addition problems. Includes missing addend.
Ten Frame	Learn numerals and addition facts using ten frames.
Addition	
Push Box	Determine how many boxes are needed to create a bridge. Watch out for holes in the ground which
Subtraction	remove boxes. This game teaches subtraction via the removal of boxes by holes in the ground.
Pie Monster	Use the model to solve subtraction problems. Includes missing subtrahend or minuend.
Subtraction	
How Many More	Describe the difference between two whole numbers using the words less, greater, and equal.

The Number Line

Standards Coverage:

Related: 2.NSO.1.3

Game Name	Game Description
Number Line	Select locations of numbers within 20 on a number line and estimate the location of numbers up to
Trap	100 on a number line.
Number Line	Zoom in on the number line to locate the given number.
Journey Zoom	
Number Line to	Estimate the location of a two-digit whole number on the number line.
100	
Number Line to	
100 Bubble	Write numerals within 100 on the number line.
Select	

Addition and Subtraction Situations within 100

Standards Coverage:

Recommended: 2.NSO.2.3

Game Name	Game Description
Mice Island	
Two-Digit	Fill in the missing number to make the equation true. This game teaches addition and subtraction of one- and two-digit whole numbers.
Addition	one- and two-digit whole numbers.
Critter Two-Digit	Add one-digit and two-digit whole numbers using visual models.
Addition	
Mice Island	
Two-Digit	Fill in the missing number to make the equation true. This game teaches addition and subtraction of one- and two-digit whole numbers.
Subtraction	one and two digit whole numbers.
Missing Addend	Select the other addend to make a given sum.

Measurement

Standards Coverage:

Recommended: 2.M.1.1, 2.M.1.2

Game Name	Game Description
Measure It with	Measure the length of a gap using various nonstandard units. This game also introduces the concept
Objects	of relative sizes of units.
Measurement	
Estimation	Estimate or measure lengths of objects needed to create a platform distance.
Measurement	Use rulers and measuring tapes to measure objects and create corresponding lengths on a number
Concepts	line.

Addition and Subtraction with Measurement

Standards Coverage:

Recommended: 2.M.1.3

Game Name	Game Description
Measurement	Measure and add the lengths of two objects to create an equal distance on a number line.
Addition	
Measurement	Add lengths of objects to create an equal distance between platforms or to close a gap between platforms.
Addition With	
Comparisons	

Place Value to 1,000

Standards Coverage:

Recommended: 2.NSO.1.2

Game Name	Game Description
Petals Multiple Choice	Represent ones, tens, hundreds and thousands using words, numerals and visual models.
Pulling Petals	Gain an understanding of place value by transforming the pile of petals into hundreds (bouquets with 100 petals each), tens (flowers with 10 petals each), and ones (single petals).
Bee Petals	Represent numbers using the visual model. In some levels, students determine the order of magnitude, given a number and a pile of petals (e.g. given the number 4, identify the size of the pile as 4 ones, 4 tens, or 4 hundreds).
Petals Bubble Select	Given a three-digit whole number, identify the number of hundreds, tens, and ones.
How Many Petals	Write a numeral to represent the pile of petals.
Petals Place Value	Find the total number of petals by counting the bouquets (hundreds), flowers (tens) and single petals (ones) and then filling in the hundreds, tens and ones places with the correct numerals.

Represent Numbers to 1000

Standards Coverage:

Recommended: 2.NSO.1.1

Game Name	Game Description
Place Value Builder	Identify the digit values of given whole numbers using place value based models. This game covers expanded notation and place value concepts up to the tens place while enforcing the skills of reading and writing whole numbers.
Expanded Form	Provide a number when given its representation in expanded notation. This game also covers place value concepts to the tens place while enforcing the skills of reading and writing whole numbers.
Place Value Pushers	Identify the digit that is in the ones, tens, or hundreds place of a whole number. The student also learns the numerical and word representations for each place.

Counting to 1000

Standards Coverage:

Recommended: 2.NSO.1.3

Game Name	Game Description
Number Line	Move left and right and zoom in on the number line to locate the given number.
Journey	
Counting On	Count forward to one hundred.
Number Line	Estimate the location of whole numbers (1-100) on the number line. The student is also introduced to
Trap	place value concepts with ones and tens.

Comparing Three-Digit Numbers

Standards Coverage:

Recommended: 2.NSO.1.3

Game Name	Game Description
Number Line	Use estimation and an understanding of place value to plot whole numbers (up to three digits) on a
Trap	number line.
Least Most	Identify the least or greatest element in a set of whole numbers (up to three digits).
Comparison	Order sets of objects and whole numbers using the symbols for less than, greater than, and equal to.
Signs	
Number	Order whole numbers (up to three digits) using the symbols for less than, greater than, and equal to.
Comparison	

Two Step Situations

Standards Coverage:

Recommended: 2.AR.1.1, 2.AR.2.2

Game Name	Game Description
Pie Monster	Use the model to solve two-step addition problems. Includes missing addend.
Push Box	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Missing Quantity	
Pie Monster	Solve two-step addition problems symbolically, but with support from the arena. Includes missing
Symbolic	addend.
Push Box	
Missing Quantity	Identify the total number of boxes. This game teaches addition by combining stacks of boxes.
Symbolic	
Two Step Length Problems	Find missing lengths of objects or of parts of objects. Create and add lengths that equal the distance between platforms.

Adding and Subtracting Tens and Hundreds

Standards Coverage:

Recommended: 2.NSO.2.2

Game Name	Game Description
Add or Subtract	To a three digit whole number add as subtract 1, 10, as 100 using the model
by 1, 10 or 100	To a three-digit whole number, add or subtract 1, 10, or 100 using the model.
Add or Subtract	
Single Place	Add or subtract a multiple of 1, 10, or 100 to a given number without regrouping.
Numbers	
Table Directions	Add and subtract one-digit and two-digit whole numbers using a number table.
Addition and	
Subtraction on	Estimate differences of whole numbers (up to four digits) on a number line.
the Number Line	

Place Value Bundles - Ten and Hundred

Standards Coverage:

Recommended: 2.NSO.2.3

Game Name	Game Description
Greenies Bubble Select	Produce the number that is represented by a given place value based representation. This game covers expanded notation and place value concepts up to the thousands place while enforcing the skills of reading and writing whole numbers.
Greenies Regrouping	Regroup the ones or tens or both in order to represent the total number in standard expanded form.
Intro to Building	Fill in the missing addend to make a sum of 10, or to make a sum of 100 using addends that are multiples of 10 (e.g. 30 + 70).
Petals Regrouping	Given a model of bouquets (hundreds), flowers (tens), and ones (individual petals), regroup in order to represent the total number of petals as a numeral in standard place value notation.
Petals Random Regrouping Ones	Find the total number of petals by counting the bouquets (hundreds), flowers (tens), and ones (individual petals) and regrouping using mental arithmetic.
Petals Random Regrouping Tens	Find the total number of petals by counting the bouquets (hundreds), flowers (tens), and ones (individual petals) and regrouping using mental arithmetic.
Building Blocks	Fill in the missing addend to make a sum of 10 or 100.

Using Place Value to Add and Subtract

Standards Coverage:

Recommended: 2.NSO.2.3

Game Name	Game Description
Petals Addition	Add or subtract 2- and 3- digit numbers using a quantity model of the standard algorithm. Numbers
and Subtraction	are presented as quantities of petals.
Petals Addition	
and Subtraction	Add or subtract 2- and 3- digit numbers using the quantity model alongside the usual numerical representation of the standard algorithm.
Method	representation of the standard algorithm.

Even and Odd Numbers

Standards Coverage:

Recommended: 2.AR.3.1

Game Name	Game Description
Tug Boat	Rearrange the boats so that the bridge will open. This game teaches addition, subtraction, and the concept of equal amounts.
Fruit Monster	Determine how many pieces of fruit are needed to feed the monsters. Students explore the relationship between inputs and outputs using ratios within a visual model.
Complete Box	Represent numerical expressions using an area model.
Even or Odd	Learn the concept of even and odd numbers using a visual model.
Even or Odd Symbolic	Using the terms "even" and "odd", state the parity of the various numbers.

Intro to Arrays

Standards Coverage:

Recommended: 2.AR.3.2

Game Name	Game Description
Bricks	Arrange the shapes to create the composite shape shown.
Count Blocks	Learn how to calculate the area and perimeter of a rectangle.
Create	Construct a rectangle with a given area and/or perimeter.
Rectangle	
Create Multiple	Multiply whole numbers using an area model.
Rectangles	
Bird Brain	Find birds in a grid after a sequence of transformations.

Shapes

Standards Coverage:

Recommended: 2.GR.1.1, 2.GR.1.2

Game Name	Game Description
Pick Geometric	
2D Attributes	Learn the names and number of sides of different polygons.
Prisms and	Pick the shape that is the base of a given prism.
Cylinders	Fick the shape that is the base of a given prism.
Pick Geometric	
3D and 2D	Identify the number of sides and vertices on two-dimensional shapes.
Attributes	
Match Shape	Match shapes to their outlines to clear JiJi's path. This game introduces basic geometric shapes and
Symbolic	the ideas of direction and position.
Shape Types	Identify the given polygon
Symbolic	Identify the given polygon.
Pick Geometric	
Shapes 2D	Learn the names and number of edges of different polygons.
Symbolic	

Partitioning into Equal Shares

Standards Coverage:

Recommended: 2.FR.1.1, 2.FR.1.2

Game Name	Game Description
Equal Areas	Determine which figure is divided up equally based on area.
Equal Division	Divide blocks into equal parts.
Match Partition	Match the partitioning of two rectangular blocks.
Pie Monster	Implicitly add two shaded regions together.

Time

Standards Coverage:

Recommended: 2.M.2.1

Game Name	Game Description
Hours and Minutes	Choose the correct hand corresponding to hours, minutes, and seconds on an analog clock. The game prepares students to tell and write time on an analog clock.
Telling Time	Students place the hands on a clock in the correct position to represent time to the quarter-hour on an analog clock.
Time on a Line	Read an analog clock to the quarter hour and select the correct time on a number line. This game helps to build a foundation for the idea of elapsed time presented in later grades.
Hours and Minutes Digital	Choose the correct location on a digital clock that displays the hours, minutes, and seconds. The game prepares students to tell and write time on a digital clock.
Telling Time Digital	Students read an analog clock to the quarter hour and record the time on a digital clock.

Model Addition and Subtraction within 1000

Standards Coverage:

Recommended: 2.NSO.2.4

Game Name	Game Description
Intro to	
Regrouping with	Using the petals model, add two three-digit whole numbers with regrouping in the ones or tens place.
Addition	
Regrouping Dual	Symbolically add two three-digit whole numbers with regrouping in the ones or tens place. Use the
Mode Addition	petals model as support.
Intro to	
Regrouping with	Using the petals model, subtract two three-digit whole numbers with regrouping in the ones or tens place.
Subtraction	place.
Regrouping Dual	
Mode	Symbolically subtract two three-digit whole numbers with regrouping in the ones or tens place. Use the petals model as support.
Subtraction	the petals model as support.

Creating Graphs

Standards Coverage:

Recommended: 2.DP.1.1, 2.DP.1.2

Game Name	Game Description
Attribute Grid	Identify attributes of an object including size, color and shape. Choose the location on a two-dimensional grid that corresponds to a pair of attributes describing an object.
Bar Graph Bridge	Construct bar graphs for a data set given as single observations or in a table.
Bar Graph Bridge 2	Construct bar graphs for a data set given as single observations or in a table.

Addition and Subtraction within 100

Standards Coverage:

Recommended: 2.NSO.2.1

Game Name	Game Description
Candy Factory	Identify the number of tens and ones for a given two-digit whole number.
Candy Factory Addition	Add one-digit and two-digit whole numbers using place value concepts.
Petals Addition and Subtraction	Use the standard algorithm to add and subtract whole numbers, with and without regrouping required.
Addition and Subtraction on the Number Line	Add two-digit whole numbers and mark the sum on a number line. Most of the sums and differences involve numbers that are multiples of 5 or 10.
Addition Algorithm	Add four-digit whole numbers using the standard algorithm.
Candy Factory Subtraction	Subtract one-digit and two-digit whole numbers using place value concepts.

Math Challenge 2

Game Name	Game Description
Unknowns with Addition	Solve addition problems with unknowns in varying positions and on either side of the equal sign.
Unknowns with Subtraction	Solve subtraction problems with unknowns in varying positions and on either side of the equal sign.
Unknowns with Equations	Model and solve mixed operation problems with unknowns in varying positions and on either side of the equal sign.
Estimate on Number Line	Use the number line to estimate length.
Rolling Equations	Find the missing length needed to reach JiJi.
Shape Types	
Symbolic with Rectangles and Quadrilaterals	Identify the given polygon.
Alien Bridge	Combine the shaded parts of two equivalent wholes together.
Balance Pies	Represent given fractions as circular diagrams displaying equal parts of a whole.
Fair Sharing	Determine how many boxes each creature gets, when given a description of an equal sharing situation.
How Many Creatures	Each creature has the same number of legs. Given the total number of legs, determine the number of creatures.
Fruit Monster	Determine how many pieces of fruit are needed to feed the monsters. Students explore the relationship between inputs and outputs using ratios within a visual model.

Challenge 2

Game Name	Game Description
Venn Space	Place the object in the correct section of the Venn diagram according to its attributes.
Dot Shapes	Connect dots to form shapes which will fill holes in the ground.
Ice Caves	Identify lines of symmetry in two-dimensional shapes.
Big Seed	Find a sequence of actions that will unfold the given image into the desired shape. Teaches the concept of symmetry and the idea of a function or transformation.
Attribute	Choose the correct attribute to change (shape, color, or size) to transform the first shape into the
Transform	second. This game teaches the idea of a function in a visual way.
Bird Brain	Find birds in a grid after a sequence of transformations.
Venn Space	Identify the object that has the attributes corresponding to a particular section of a Venn diagram.
Pick Shape	
Upright JiJi	Find a sequence of rotations to move JiJi into an upright position.
Kick Box	Use lasers and mirrors to move the spheres out of the way so JiJi can pass.

Partitioning Symbolic

Game Name	Game Description
Crank Pies	Identify equivalent fractions using both circular and rectangular diagrams.
Equivalent	Identify equivalent fractions using rectangular diagrams displaying equal parts of a whole.
Fractions	
Fraction of	Determine the word best describing the shaded region (fourth, half, whole, etc). Select how many of these 'units' are present.
Shape Symbolic	
Match Fraction	Represent a given fraction using a visual model by first dividing a whole into equal parts and then shading the correct number of parts.
Symbolic	
Crank Pies	Determine the word best describing the shaded region (fourth, half, whole, etc). Select how many of
Symbolic	these 'units' are present.

Skip Counting

Game Name	Game Description
Staircase	Skip count to move JiJi up the stairs. This game builds a foundation for understanding multiplication as repeated addition.
Counting by	
Ones on the	Use a hundreds chart to count on by 1s, 2s, 3s, 4s or 5s.
Hundreds Chart	
Counting by	
Tens on the	Use a hundreds chart to count by tens.
Hundreds Chart	
Counting by	
Tens on the	Add multiple tens to a given number where the sum is less than 100.
Number Line	

Operations on the Number Line

Game Name	Game Description
Adding with	On the number line, add multiple ones to a given whole number within 20.
Jumps	
Creating Jumps	On the number line, add multiple ones to a given whole number within 20.
Adding on the	Add two whole numbers on the number line where the sum is within 20.
Number Line	

OPTIONAL OBJECTIVES

Addition and Subtraction Facts

Game Name	Game Description
Push Box	Practice addition facts using visual block representations for sums under 10.
Addition Facts	Practice addition facts using visual block representations for sums under 10.
Select Box	Practice addition facts using alternate visual block representations for sums under 10.
Addition Facts	Fractice addition facts using afternate visual block representations for sums under 10.
Basic	
Subtraction	Practice subtraction facts under 10 using visual block representations.
Facts	
Select Box	
Subtraction	Practice subtraction facts under 10 using alternate block representations.
Facts	
Ten Frame	Practice addition facts to 20 using ten frames.
Addition Facts	Tractice addition facts to 20 dsing ten names.
Ten Frame	
Subtraction	Practice subtraction facts using ten frames.
Facts	
Mixed Facts	Practice addition and subtraction facts using visual block representations.
Addition and	
Subtraction	Practice addition and subtraction facts using a number line representation.
Facts on the	Fractice addition and subtraction facts using a number line representation.
Number Line	
Add Facts	Practice addition facts using a tricky inverted format.
Bridge	Fractice addition facts using a tricky inverted format.
Concentration	Practice multiple addition and subtraction facts quickly in sequence.
Numbers	Fractice multiple addition and subtraction facts quickly in sequence.

STANDARDS INDEX

NSO - Number Sense and Operations

Standard	Objective(s)
2.NSO.1.1	Read and write numbers from 0 to 1,000 using standard form, expanded form and word form.
	Recommended: Represent Numbers to 1000
2.NSO.1.2	Compose and decompose three-digit numbers in multiple ways using hundreds, tens and ones. Demonstrate each composition or decomposition with objects, drawings and expressions or equations.
	Recommended: Place Value to 1,000
2.NSO.1.3	Plot, order and compare whole numbers up to 1,000.
	Recommended: Counting to 1000; Comparing Three-Digit Numbers
	Related: The Number Line
2.NSO.2.1	Recall addition facts with sums to 20 and related subtraction facts with automaticity.
	Recommended: Addition and Subtraction within 100
2.NSO.2.2	Identify the number that is ten more, ten less, one hundred more and one hundred less than a given three-digit number.
	Recommended: Adding and Subtracting Tens and Hundreds
	continued on next page

NSO - Number Sense and Operations (continued)

Standard	Objective(s)
2.NSO.2.3	Add two whole numbers with sums up to 100 with procedural reliability. Subtract a whole number from a whole number, each no larger than 100, with procedura reliability.
	Recommended: Addition and Subtraction Situations within 100; Place Value Bundles - Ten and Hundred; Using Place Value to Add and Subtract
2.NSO.2.4	Explore the addition of two whole numbers with sums up to 1,000. Explore the subtraction of a whole number from a whole number, each no larger than 1,000.
	Recommended: Model Addition and Subtraction within 1000

FR - Fractions

Standard		Objective(s)
	2.FR.1.1	Partition circles and rectangles into two, three or four equal-sized parts. Name the parts using appropriate language, and describe the whole as two halves, three thirds or four fourths.
		Recommended: Partitioning into Equal Shares
	2.FR.1.2	Partition rectangles into two, three or four equal-sized parts in two different ways show ing that equal-sized parts of the same whole may have different shapes.
		Recommended: Partitioning into Equal Shares

AR - Algebraic Reasoning

Standard	Objective(s)
2.AR.1.1	Solve one- and two-step addition and subtraction real-world problems.
	Recommended: Two Step Situations
	Related: Addition and Subtraction Situations
2.AR.2.2	2 Determine the unknown whole number in an addition or subtraction equation, relating three or four whole numbers, with the unknown in any position.
	Recommended: Two Step Situations
2.AR.3.1	Represent an even number using two equal groups or two equal addends. Represent an odd number using two equal groups with one left over or two equal addends plus 1.
	Recommended: Even and Odd Numbers
2.AR.3.2	Use repeated addition to find the total number of objects in a collection of equal groups. Represent the total number of objects using rectangular arrays and equations.
	Recommended: Intro to Arrays

M - Measurement

Standard	Objective(s)
2.M.	Estimate and measure the length of an object to the nearest inch, foot, yard, centimeter or meter by selecting and using an appropriate tool.
	Recommended: Measurement
2.M.	1.2 Measure the lengths of two objects using the same unit and determine the difference between their measurements.
	Recommended: Measurement
2.M.	1.3 Solve one- and two-step real-world measurement problems involving addition and subtraction of lengths given in the same units.
	Recommended: Addition and Subtraction with Measurement
2.M.	2.1 Using analog and digital clocks, tell and write time to the nearest five minutes using a.m. and p.m. appropriately. Express portions of an hour using the fractional terms half an hour, half past, quarter of an hour, quarter after and quarter til.
	Recommended: Time

GR - Geometric Reasoning

Standard		Objective(s)
	2.GR.1.1	Identify and draw two-dimensional figures based on their defining attributes. Figures are limited to triangles, rectangles, squares, pentagons, hexagons and octagons.
		Recommended: Shapes
	2.GR.1.2	Categorize two-dimensional figures based on the number and length of sides, number of vertices, whether they are closed or not and whether the edges are curved or straight.
		Recommended: Shapes

DP - Data Analysis and Probability

Standard		Objective(s)
	2.DP.1.1	Collect, categorize and represent data using tally marks, tables, pictographs or bar graphs. Use appropriate titles, labels and units.
		Recommended: Creating Graphs
	2.DP.1.2	Interpret data represented with tally marks, tables, pictographs or bar graphs including solving addition and subtraction problems.
		Recommended: Creating Graphs

JOURNEY AND BONUS JOURNEY OBJECTIVES

Intro to ST Math

Game Name	Game Description
Build Parts	Put JiJi's parts into the outline.
JiJi Poses	Identify the view of JiJi indicated by an outline.
Fill Ground	Fill the outline(s) in the ground with the matching shape or the correct number of shapes.
Estimate On	Estimate on a number line the length of a given block.
Number Line	

Multiplication Concepts

Standards Coverage:

Recommended: 3.NSO.2.2

Game Name	Game Description
How Many Legs	Find the correct number of shoes for each set of creatures by counting or, in later levels, multiplying.
Number Line	Multiply whole numbers using a number line.
Multiplication	
Build	Add and multiply whole numbers using visual models.
Expressions	
Repeated	Interpret a multiplication expression as repeated addition.
Expressions	

Division Concepts

Standards Coverage:

Recommended: 3.NSO.2.2

Game Name	Game Description
Set Split	Divide a set of objects into two equal subsets.
Fair Sharing	Determine how many boxes each creature gets, when given a description of an equal sharing situation.
How Many	Each creature has the same number of legs. Given the total number of legs, determine the number of
Creatures	creatures.
Fair Sharing	Determine how many haves each greature gets and how many remain in an equal charing game
Symbolic	Determine how many boxes each creature gets and how many remain in an equal sharing game.
Build	Divide whole numbers by forming equal groups of dots.
Expressions	

Multiplication and Division Relationships

Standards Coverage:

Recommended: 3.AR.2.1, 3.AR.2.3

Game Name	Game Description
Fruit Monster	Determine how many pieces of fruit are needed to feed the monsters. Students explore the relationship between inputs and outputs using ratios within a visual model.
Leg Drape	Multiply whole numbers using repeated addition.
Symbolic	Willipsy whole numbers using repeated addition.
Multiplication	Practice multiplication facts. This game reinforces place value concepts as well by having students
Facts	give their answers as tens and ones.
Build Expression	Divide whole numbers by forming equal groups of dots.
Multiplication Division Fact Family	Create related number sentences by selecting the correct numbers and operation. This game teaches multiplication and division facts and the inverse relationship between the two operations.
Number Line Division	Divide whole numbers and locate the quotients on a number line.
Select Box	Practice multiplication and division facts with missing factors, divisors, or dividends. Groups of boxes illustrate each fact.

Rounding Three-Digit Numbers

Standards Coverage:

Recommended: 3.NSO.1.4

Game Name	Game Description
Number Funnels Highest Place	Round two-digit numbers to the nearest 10 and three-digit numbers to the nearest 100.
Number Funnels Tens Place	Round two-digit and three-digit numbers to the nearest 10.

Place Value Bundles

Standards Coverage:

Recommended: 3.NSO.2.1

Game Name	Game Description
Intro to Building	Fill in the missing addend to make a sum of 10, or to make a sum of 100 using addends that are multiples of 10 (e.g. 30 + 70).
Petals	Given a model of bouquets (hundreds), flowers (tens), and ones (individual petals), regroup in order to
Regrouping	represent the total number of petals as a numeral in standard place value notation.
Petals Random	Find the total number of notels by counting the house star (bundreds) flowers (tans), and once
Regrouping	Find the total number of petals by counting the bouquets (hundreds), flowers (tens), and ones (individual petals) and regrouping using mental arithmetic.
Ones	(Control of the cont
Petals Random	Find the total number of petals by counting the bouquets (hundreds), flowers (tens), and ones (individual petals) and regrouping using mental arithmetic.
Regrouping	
Tens	
Building Blocks	Fill in the missing addend to make a sum of 10 or 100.

Addition and Subtraction with Regrouping

Standards Coverage:

Recommended: 3.NSO.2.1

Game Name	Game Description
Intro to	Llaing the notale model, add two three digit whole numbers with regrouping in the energy tens place
Regrouping	Using the petals model, add two three-digit whole numbers with regrouping in the ones or tens place.
Regrouping Dual	Symbolically add two three-digit whole numbers with regrouping in the ones or tens place. Use the
Mode Addition	petals model as support.
Intro to	Using the petals model, subtract two three-digit whole numbers with regrouping in the ones or tens
Borrowing	place.
Regrouping Dual	
Mode	Symbolically subtract two three-digit whole numbers with regrouping in the ones or tens place. Use the petals model as support.
Subtraction	the petals model as support.

Multiplication and Area

Standards Coverage:

Recommended: 3.NSO.2.2, 3.GR.2.2

Game Name	Game Description
Grid	Multiply whole numbers using an area model
Expressions	Multiply whole numbers using an area model.
Area Select	Calculate the area of rectangles using a formula.
Complete Box	Fill the space with unit squares - both standard and nonstandard shapes. Illustrate the additive nature of area.
Complete Box Fill	Given so many unit squares, determine the shape needed to hold those squares.

Properties of Multiplication

Standards Coverage:

Recommended: 3.NSO.2.3, 3.AR.1.1

Game Name	Game Description
Distributive	Introduces distribution of multiplication over addition through visual models of groups of fruit.
Fruits	
Distributive Fruit	Select templates for distribution of multiplication to match visual models of groups. Complete
Modeling	distribution templates to represent visual models of groups and symbolic products.
Distributive	Apply the distributive property of multiplication to solve problems involving arrays and areas.
Boxes	
Multiplying By	Model products of one digit and a multiple of 10 using visual, word, and symbolic representations.
10s	

Multiplication Facts and Strategies

Standards Coverage:

Recommended: 3.NSO.2.4

Game Name	Game Description
How Many Legs	
Multiplication	Multiply whole numbers using repeated addition.
Symbolic	
Multiplication	
Stacks	Identify the number that should be multiplied by the given number to obtain the given product.
Multiplication	Practice multiplication facts. This game reinforces place value concepts as well by having students
Facts	give their answers as tens and ones.
Multiplication	Multiply multi-digit whole numbers by one-digit whole numbers using the standard algorithm.
Algorithm	

Division Facts and Strategies

Standards Coverage:

Recommended: 3.NSO.2.2, 3.NSO.2.4

Game Name	Game Description
Area Divide	Divide the tiles into equal groups, with and without remainders. The correct answer is demonstrated using an area model.
How Many	Each creature has the same number of legs. Given the total number of legs, determine the number of
Creatures	creatures.
Symbolic	or outsides.
Fair Sharing	Determine how many have each exective sets and how many remain in an extent charing some
Expression	Determine how many boxes each creature gets and how many remain in an equal sharing game.
Number Line	Divide whole numbers and locate the quotients on a number line.
Division	

Fraction Concepts

Standards Coverage:

Recommended: 3.FR.1.1, 3.FR.1.2, 3.FR.1.3

Game Name	Game Description
Equal Areas	Determine which figure is divided up equally based on area.
Balance Pies	Represent given fractions as circular diagrams displaying equal parts of a whole.
Match Fraction	Represent a given fraction using a visual model by first dividing a whole into equal parts and then shading the correct number of parts.
Fraction of Shape	Create the symbolic notation for a fraction of an irregular shape.
Crank Pies	Represent fractions as equal parts of a whole using visual models.
Alien Bridge	Represent fractions as equal parts of a whole using visual models.

Fractions on the Number Line

Standards Coverage:

Recommended: 3.FR.1.1, 3.FR.1.2, 3.FR.1.3

Game Name	Game Description
JiJi Cycle	
Basket	Estimate the location of a fraction represented with a diagram on the number line.
Scale Fraction	Plot the combined length of a collection of rectangles on the number line.
JiJi Cycle	Select the fraction corresponding to the marked point on the number line. The fractions are represented visually as equal parts of a circle.
JiJi Cycle Select	Delete a collection of functions to a circula maint on the manufacturing
Wheel Symbolic	Relate a collection of fractions to a single point on the number line.
Estimate	
Fractions on a	Estimate the location of fractions on the number line.
Number Line	
Fraction Trap	Estimate on a number line the location of fractions.
Bubble Fraction	Write the fraction shown on the number line.
Trap	

Fraction Equivalence and Comparing

Standards Coverage:

Recommended: 3.FR.2.1, 3.FR.2.2

Game Name	Game Description
Fraction Bricks	Represent the same length using different partitionings.
Equivalent	Generate equivalent fractions using visual fraction models.
Fractions	
Number Line	Estimate the location of the given fraction on a number line.
Trap	
Fractions on	Estimate the location of the given fraction on a number line.
Number Line	
More or Less	Compare fractions with either the same numerator or same denominator using visual models.
Fraction Order	Help Jiji cross the pit by ordering fractions from least to greatest.
Fill	

Number Patterns

Standards Coverage:

Recommended: 3.AR.3.3

Game Name	Game Description
Make It Linear	Identify the common difference in an increasing or decreasing arithmetic sequence represented in numerical form and with virtual manipulatives in order to extend a sequence of numbers or identify missing numbers in a sequence.
Hundreds Pit	Count by 2s, 5s, or 10s to fill the pit so JiJi can cross. Identify patterns in the counting sequence.
Multiplication Table Parts	Find locations in the multiplication table that correspond to multiplication facts with a given product. Investigate relationships between nearby rows and columns with puzzles that have multiple products.
Multiplication Pattern Strings	Multiply whole numbers using a place value model.
Pattern Machine	Extend increasing arithmetic sequences of numbers represented on a number line.

Mass and Volume

Standards Coverage:

Recommended: 3.M.1.1, 3.M.1.2

Game Name	Game Description
Slinky Objects	Compare and order familiar objects by weight using a balance.
Slinky Weights	Compare and order objects by weight using a balance.
Slinky with Units	Weigh objects and compare weights using U.S customary units.
Arctic Volume	
Addition and	Solve one-step addition and subtraction problems involving liquid volumes using beakers with a measurement scale.
Subtraction	medadrement socie.
Arctic Volume	
Multiplication	Solve one-step multiplication and division problems involving liquid volumes using beakers with a measurement scale.
and Division	
Helicopter	Identify the number of stacks the helicopter should drop in order to fill the hole in the ground.
Volume	
Volume Fill	Count cubes to determine the volume of a figure.

Solve Two Step Problems

Standards Coverage:

Recommended: 3.AR.1.2

Game Name	Game Description
Pie Monster	Determine how many pies to add or subtract to the conveyer belt so two monsters can remove the crates blocking JiJi's path.
How Many Legs	Multiply whole numbers using repeated addition.
How Many	Multiply whole numbers using repeated addition.
Creatures	
Two Step	Solve two-step addition, subtraction, multiplication, or division problems involving liquid volumes in beakers with a measurement scale.
Problems with	
Volume	

Shapes

Standards Coverage:

Recommended: 3.GR.1.2

Game Name	Game Description
Shape Types	Identify the given polygon.
Shape Types	
with	Identify the given polygon.
Quadrilaterals	
Pick Geometric	Matabatha name of a true dimensional above with the number of vertices or advect these
Shapes 2D	Match the name of a two-dimensional shape with the number of vertices or edges it has.
Pick Geometric	
Shapes 2D	Match the name of a two-dimensional shape with the number of vertices or edges it has.
Symbolic	

Lines of Symmetry

Standards Coverage:

Recommended: 3.GR.1.3

Game Name	Game Description
Where is the	
Line of	Identify lines of symmetry in a variety of shapes.
Symmetry	
Symmetry Grid	Create figures that have bilateral symmetry using a grid to reflect shapes across the symmetry line.
Ice Caves	Shoot lasers through blocks of ice along lines of symmetry. Students identify line-symmetric and asymmetric figures.
Big Seed	Fill all the holes using colored tiles. A group of tiles of the same color can be unfolded along 8 symmetry axes. The color of tiles can also be changed.

Area and Perimeter

Standards Coverage:

Recommended: 3.GR.2.1, 3.GR.2.2, 3.GR.2.3

Game Name	Game Description
Perimeter Select	Calculate the perimeter of a variety of shapes including triangles, rectangles, parallelograms, and trapezoids.
Select Area	Learn how to calculate the area and perimeter of a rectangle.
Perimeter	
Area Perimeter Select Shape	Construct a rectangle with a given area and/or perimeter.

Time to the Minute

Standards Coverage:

Recommended: 3.M.2.1

Game Name	Game Description
Hours and	Choose the correct hand corresponding to hours, minutes, and seconds on an analog clock. The
Minutes	game prepares students to tell and write time on an analog clock.
Telling Time	Tell time on an analog clock and record the time on a digital clock.
Time on a Line	Read an analog clock to the quarter hour and select the correct time on a number line. This game helps to build a foundation for the idea of elapsed time presented in later grades.
Hours and	Choose the correct location on a digital clock that displays the hours, minutes, and seconds. The game prepares students to tell and write time on a digital clock.
Minutes Digital	
Telling Time	Students read an analog clock to the quarter hour and record the time on a digital clock.
Digital	

Intervals of Time

Standards Coverage:

Recommended: 3.M.2.2

Game Name	Game Description
Move Hands	Determine elapsed time between two specified times on analog clocks by relating the movement of the hour and minute hands to lengths of time.
Clock Monster	Set a clock to display the new time after a given amount of elapsed time from a specified time.
Set Time	9
Clock Monster	Find the difference between times represented on separate analog clocks.
Clock Monster	Find the difference between times represented on separate analog clocks.
Symbolic	
Time Unroll	Determine elapsed time by selecting an appropriately sized gap that will fit the difference between two specified times.
Time Unroll With	Determine elapsed time by selecting an appropriately sized gap that will fit the difference between two specified times.
Clocks	
Clock Monster	Find the difference between times represented on separate analog clocks.
Timeline	
Clock Monster	Find the difference between times represented on separate analog clocks.
Timeline 2	

Scale and Measurement in Graphing

Standards Coverage:

Recommended: 3.DP.1.1, 3.DP.1.2

Game Name	Game Description
Bar Graph	Construct vertical and horizontal bar graphs for a data set given as single observations or in a table.
Bridge	
Bar Graph	Construct vertical and horizontal bar graphs for a data set given as single observations or in a table.
Bridge 2	

Line Plots

Standards Coverage:

Recommended: 3.DP.1.1, 3.DP.1.2

Game Name	Game Description
Soccer Dot Plots	Record whole number and fraction measurements on a number line to create a dot plot.
Fractions	
Dot Plot	Identify which dimension of the given group of rectangles is represented by the dot plot shown.
Dimension Intro	

Math Challenge 3

Game Name	Game Description
Measurement	Estimate or measure lengths of objects needed to create a platform distance.
Estimation	
Measurement	
Addition	Apply addition and subtraction strategies to solve problems involving length measurements.
Subtraction	
Add Sub	
Comparing	Measurment arithmetic problems.
Lengths	
Bouncing Shoes	Use repeated addition within the model to determine how many of one animal are needed to fill the given number of shoes.
Bouncing Shoes	Use multiplication within the model to determine how many of one animal are needed to fill the given number of shoes.
Symbolic	
Pie Monster	Represent the given fraction or whole number with circles divided into equal parts.
Pattern Machine	Generate numerical patterns on the number line by finding consecutive terms.
Which	Identify where the perentheses should be pleased to make the everyseign represent the given model
Parentheses	Identify where the parentheses should be placed to make the expression represent the given mode
Scale Fraction	Plot the combined length of a collection of rectangles on the number line.
Estimate	
Fractions on the	Estimate the location fractions on the number line.
Number Line	
JiJi Cycle Select Wheel	Relate a collection of fractions represented with circular diagrams to a single point on the number line.
JiJi Cycle Select Basket	Relate a collection of fractions represented with circular diagrams to a single point on the number line.

Challenge 3

Game Name	Game Description
Treasure Hunt	Help JiJi navigate around the map to find the correct destination. This game helps develop spatial reasoning by working with position and direction concepts.
Attribute	Choose the correct attribute to change (shape, color, or size) to transform the first shape into the
Transform	second. This game teaches the idea of a function in a visual way.
Bird Brain	Find birds in a grid after a sequence of transformations.
Big Seed	Find a sequence of actions that will unfold the given image into the desired shape. Teaches the
	concept of symmetry and the idea of a function or transformation.
Venn Space	Place the object in the correct section of the Venn diagram according to its attributes.
Venn Space	Identify the object that has the attributes corresponding to a particular section of a Venn diagram.
Pick Shape	
Ice Caves	Identify lines of symmetry in two-dimensional shapes.
Dot Shapes	Connect dots to form shapes which will fill holes in the ground.
Upright JiJi	Find a sequence of rotations to move JiJi into an upright position.
Kick Box	Use lasers and mirrors to move the spheres out of the way so JiJi can pass.

Cognitive Training

Game Name	Game Description
Sorting Fruit	Working memory tasks - help animals collect hidden fruit sequences moving along a conveyor belt.
Shape Match	Working memory tasks - track moving shapes on a grid to match outlines.

OPTIONAL OBJECTIVES

Even and Odd Numbers

Game Name	Game Description
Tug Boat	Rearrange the boats so that the bridge will open. This game teaches addition, subtraction, and the concept of equal amounts.
Fruit Monster	Determine how many pieces of fruit are needed to feed the monsters. Students explore the relationship between inputs and outputs using ratios within a visual model.
Complete Box	Represent numerical expressions using an area model.
Even or Odd	Learn the concept of even and odd numbers using a visual model.
Even or Odd Symbolic	Using the terms "even" and "odd", state the parity of the various numbers.

STANDARDS INDEX

NSO - Number Sense and Operations

Standard	Objective(s)
3.NSO.1.4	Round whole numbers from 0 to 1,000 to the nearest 10 or 100.
	Recommended: Rounding Three-Digit Numbers
3.NSO.2.1	Add and subtract multi-digit whole numbers including using a standard algorithm with procedural fluency.
	Recommended: Place Value Bundles; Addition and Subtraction with Regrouping
3.NSO.2.2	Explore multiplication of two whole numbers with products from 0 to 144, and related division facts.
	Recommended: Multiplication Concepts; Division Concepts; Multiplication and Area; Division Facts and Strategies
3.NSO.2.3	Multiply a one-digit whole number by a multiple of 10, up to 90, or a multiple of 100, up to 900, with procedural reliability.
	Recommended: Properties of Multiplication
3.NSO.2.4	Multiply two whole numbers from 0 to 12 and divide using related facts with procedural reliability.
	Recommended: Multiplication Facts and Strategies; Division Facts and Strategies

FR - Fractions

Standard	Objective(s)
3.FR.1.1	Represent and interpret unit fractions in the form 1/n as the quantity formed by one part when a whole is partitioned into n equal parts.
	Recommended: Fraction Concepts; Fractions on the Number Line
3.FR.1.2	Represent and interpret fractions, including fractions greater than one, in the form of m/n as the result of adding the unit fraction 1/n to itself m times.
	Recommended: Fraction Concepts; Fractions on the Number Line
3.FR.1.3	Read and write fractions, including fractions greater than one, using standard form, numeral-word form and word form.
	Recommended: Fraction Concepts; Fractions on the Number Line
3.FR.2.1	Plot, order and compare fractional numbers with the same numerator or the same denominator.
	Recommended: Fraction Equivalence and Comparing
3.FR.2.2	Identify equivalent fractions and explain why they are equivalent.
	Recommended: Fraction Equivalence and Comparing

AR - Algebraic Reasoning

Standard	Objective(s)
3.AR.1.1	Apply the distributive property to multiply a one-digit number and two-digit number. Apply properties of multiplication to find a product of one-digit whole numbers.
	Recommended: Properties of Multiplication
3.AR.1.2	Solve one- and two-step real-world problems involving any of four operations with whole numbers.
	Recommended: Solve Two Step Problems
3.AR.2.1	Restate a division problem as a missing factor problem using the relationship between multiplication and division.
	Recommended: Multiplication and Division Relationships
3.AR.2.3	Determine the unknown whole number in a multiplication or division equation, relating three whole numbers, with the unknown in any position.
	Recommended: Multiplication and Division Relationships
3.AR.3.3	Identify, create and extend numerical patterns.
	Recommended: Number Patterns

M - Measurement

Standard	Objective(s)
3.M.1.1	Select and use appropriate tools to measure the length of an object, the volume of liquid within a beaker and temperature.
	Recommended: Mass and Volume
3.M.1.2	Solve real-world problems involving any of the four operations with wholenumber lengths, masses, weights, temperatures or liquid volumes.
	Recommended: Mass and Volume
3.M.2.1	Using analog and digital clocks tell and write time to the nearest minute using a.m. and p.m. appropriately.
	Recommended: Time to the Minute
3.M.2.2	Solve one- and two-step real-world problems involving elapsed time.
	Recommended: Intervals of Time

GR - Geometric Reasoning

Standard	Objective(s)
3.GR.1.2	Identify and draw quadrilaterals based on their defining attributes. Quadrilaterals include parallelograms, rhombi, rectangles, squares and trapezoids.
	Recommended: Shapes
3.GR.1.3	Draw line(s) of symmetry in a two-dimensional figure and identify line-symmetric two-dimensional figures.
	Recommended: Lines of Symmetry
3.GR.2.1	Explore area as an attribute of a two-dimensional figure by covering the figure with unit squares without gaps or overlaps. Find areas of rectangles by counting unit squares.
	Recommended: Area and Perimeter
3.GR.2.2	Find the area of a rectangle with whole-number side lengths using a visual model and a multiplication formula.
	Recommended: Multiplication and Area; Area and Perimeter
3.GR.2.3	Solve mathematical and real-world problems involving the perimeter and area of rectangles with whole-number side lengths using a visual model and a formula.
	Recommended: Area and Perimeter

DP - Data Analysis and Probability

Standard		Objective(s)
	3.DP.1.1	Collect and represent numerical and categorical data with whole-number values using tables, scaled pictographs, scaled bar graphs or line plots. Use appropriate titles, labels and units.
		Recommended: Scale and Measurement in Graphing; Line Plots
	3.DP.1.2	Interpret data with whole-number values represented with tables, scaled pictographs, circle graphs, scaled bar graphs or line plots by solving one- and two-step problems.
		Recommended: Scale and Measurement in Graphing; Line Plots

JOURNEY AND BONUS JOURNEY OBJECTIVES

Place Value

Standards Coverage:

Recommended: 4.NSO.1.1, 4.NSO.1.2, 4.NSO.1.3

Game Name	Game Description
Number Line Journey	Move left and right on the number line to locate the given number.
Expanded Form	Provide a number when given its representation in expanded notation. This game also covers place value concepts to the millions place while enforcing the skills of reading and writing whole numbers.
Commas	Correctly place commas on large whole numbers and identify the place values of the points where the commas are placed.
Place Value Clouds	Identify the place value of a given digit of a whole number up to the millions place. The place values are expressed with the words or symbols for the powers of ten.

Rounding Whole Numbers

Standards Coverage:

Recommended: 4.NSO.1.4

Game Name	Game Description
Number Funnels	Round whole numbers to the nearest given place value. The game also teaches place value concepts up to the hundred thousands place.

Comparing Whole Numbers

Standards Coverage:

Recommended: 4.NSO.1.3

Game Name	Game Description
Large Number	Order whole numbers up to seven digits using the symbols for less than, greater than, and equal to.
Comparison	Order whole numbers up to seven digits using the symbols for less than, greater than, and equal to.
Least Most	Identify the least or greatest element in a set of whole numbers (up to six digits) and learn the
Symbolic	meaning of the words "least" and "greatest".
Large Number	
Comparison	Order whole numbers up to seven digits using the phrases "less than", "greater than", and "equal to".
Symbolic	
Order Fill	Choose the numbers in order from least to greatest in order to fill the pit so JiJi can cross.

Addition and Subtraction Algorithm

Standards Coverage:

Recommended: 4.NSO.2.7

Game Name	Game Description
Arithmetic	Add and subtract whole numbers (up to five digits) and estimate sums and differences on a number
Number Line	line.
Addition and	
Subtraction	Add and subtract whole numbers (up to five digits) using the standard algorithm.
Algorithm	
Missing Digits	Fill in the missing digit(s) in a multi-digit addition or subtraction computation.

Multi-Step Addition and Subtraction Problems

Standards Coverage:

Recommended: 4.M.2.1

Game Name	Game Description
Multi-Step	
Adding and	Solve multi-step addition and subtraction problems involving lengths of objects with unknowns in a
Subtracting	varying positions.
Lengths	
Multi-Step	
Addition and	Solve multi-step addition and subtraction problems involving liquid volumes using beakers with a
Subtraction with	measurement scale.
Volume	

Factors and Multiples

Standards Coverage:

Recommended: 4.AR.3.1

Game Name	Game Description
Multiples	Identify multiples of a given whole number.
Factors	Identify factors of a given whole number.
Multiples and	Identify factors or multiples of a given whole number
Factors	Identify factors or multiples of a given whole number.
Find the Primes	Identify which of the numbers in a given set are primes.
Prime	Find prime feature there for all on the least under the discussion of the second
Factorization	Find prime factorizations for given whole numbers using tree diagrams.
Prime	
Factorization	Find prime factorizations for given whole numbers and fill in the bubbles to create the prime factorization expression.
Bubble	lactorization expression.
Prime	
Factorization	Find prime factorizations for given whole numbers and fill in the bubbles to create the prime factorization expression.
Bubble Symbolic	iacionzation expression.

Patterns

Standards Coverage:

Recommended: 4.AR.3.2

Game Name	Game Description
Pattern Wheel	Identify and extend patterns of different geometric shapes.
Pattern Machine	Generate numerical patterns on the number line by finding consecutive terms.
Robot Patterns	Identify and extend geometric patterns of colored squares on a grid.
Pattern Machine	
Advanced	Find consecutive and non-consecutive terms for a numerical pattern.

Multi-Step Problems Using 4-Operations

Standards Coverage:

Recommended: 4.AR.1.1

Game Name	Game Description
Linear Transform	Select the number that will allow JiJi to cross to the other side. This game teaches the concept of equality through problems involving multiple operations.
Leg Drape Boots	Multiply whole numbers using repeated addition.
Leg Drape	Multiply whole numbers using repeated addition.
Creatures	
Multi-Step Mixed	
Operations with	Solve multi-step mixed operation problems involving liquid volumes using beakers with a measurement scale.
Volume	
Which	Identify where the parentheses should be placed to make the expression represent the given model.
Parentheses	

Applying Area and Perimeter

Standards Coverage:

Recommended: 4.GR.2.1

Game Name	Game Description
Perimeter Select	Calculate the perimeter of a variety of shapes including triangles, squares, trapezoids, parallelograms, rectangles, and rhombuses.
Area Select	Calculate the area of rectangles using a formula.
Area or Perimeter	Calculate the area of rectangles using a formula.
Area Perimeter with Units	Learn the units for measuring area and perimeter and explore pairs of different rectangles with equivalent perimeters or areas.

Mixed Numbers

Standards Coverage:

Related: 4.FR.2.1, 4.FR.2.2, 4.AR.1.2

Game Name	Game Description
Match Fraction	Represent a given fraction using a visual model by first dividing a whole into equal parts and then shading the correct number of parts.
Alien Bridge	Use pies divided into fourths to create a fraction diagram to match the given one.
JiJi Cycle Select	Relate a collection of fractions represented with circular diagrams to a single point on the number line.
Wheel	
Scale Fraction	Plot the combined length of a collection of rectangles on the number line.
Estimate	Estimate the location fractions on the number line.
Fractions on the	
Number Line	
Fraction Trap	Estimate on a number line the location of Fractions

Fraction Equivalence

Standards Coverage:

Recommended: 4.FR.1.3, 4.FR.1.4

Game Name	Game Description
Equivalent	
Fractions	Generate equivalent fractions using visual fraction models.
Common	
Denominator	Partion a fraction to create an equivalent fraction using models.
Monster	
Common	
Denominator	Partion fractions to create common denominators using models.
Monster	
Advanced	
Fraction More or	Compare fractions with the same numerator or the same denominator using models.
Less	

Addition and Subtraction with Fractions

Standards Coverage:

Recommended: 4.FR.2.1, 4.FR.2.2, 4.AR.1.2

Game Name	Game Description
Alien Bridge	Learn the meaning of fraction addition using visual models.
JiJi Cycle Select Basket	Relate a collection of fractions represented with circular diagrams to a single point on the number line.
Scale Fraction Addition and Subtraction	Add and subtract fractions and mixed numbers on the number line. The fractions and mixed numbers are presented using visual models.
Alien Bridge Symbolic	Add fractions with the same denominator. In some levels, students fill in the missing addend when given one addend and the sum.
JiJi Cycle Select Basket Symbolic	Relate a collection of fractions to a single point on the number line.
Crank Pies Addition and Subtraction Symbolic	Add proper and improper fractions with like denominators. This game extends the visual model of fractions to numeric representations.
Scale Fraction Addition and Subtraction Symbolic	Add and subtract fractions and mixed numbers with like and unlike denominators on the number line.
Pie Monster Symbolic	Represent the given fraction or whole number with circles divided into equal parts.

Fraction Multiplication

Standards Coverage:

Recommended: 4.FR.2.4, 4.AR.1.3

Game Name	Game Description
Alien Bridge	Learn to multiply fractions by a whole number using a visual model.
Alien Bridge Symbolic	Learn to multiply fractions by a whole number using a visual model. This game integrates the symbolic notation for recording the multiplication equation displayed in the visual model.
Crank Pies Fraction Multiplication	Multiply fractions by whole numbers using visual models.
Fraction Multiplication on the Number Line	Multiply fractions and estimate the locations of the products on a number line.

Decimal Fractions

Standards Coverage:

Recommended: 4.FR.1.1, 4.FR.1.2, 4.FR.2.3

Game Name	Game Description
Fraction Grid	Identify the fraction, equivalents of numbers using the given model.
Decimal Grid	Identify the decimal equivalents of numbers using the given model.
Fractions and	Identify the decimal and fraction equivalents of numbers using the given model.
Decimals Grid	
Number Line	Estimate on a number line the location of tenths and hundredths in fraction and decimal form.
Trap	
Addition on NL	Estimate on a number line the location of fourths and halves in fraction and decimal form.

Compare Decimals

Standards Coverage:

Recommended: 4.NSO.1.5

Game Name	Game Description
What's the	Estimate on a number line the location of decimals and whole numbers.
Number	
Decimal Order	Help JiJi cross the pit by putting one- and two-place decimals in order from least to greatest.
Fill	
Decimal	Order decimals using place value-based methods and the symbols for less than, greater than, and
Comparison	equal to.

Lines and Angles

Standards Coverage:

Recommended: 4.GR.1.1, 4.GR.1.2, 4.GR.1.3

Game Name	Game Description
Parallel and Perpendicular Lines	Use visual icons to identify parallel and perpendicular lines, then apply those concepts to the terms perpendicular and parallel.
Acute Obtuse and Right Angles	Use visual cues to identify acute, obtuse and right angles, then apply those concepts to the terms acute, obtuse and right.
Identify Lines and Angles	Apply visual cues to identify a variety of lines and angles, then apply those concepts to their vocabulary terms.
Draw Lines and Angles	Draw lines or angles given prompt of vocabulary terms.
Do the Lines Intersect	Identify parallel, perpendicular, and intersecting lines within a given set of lines.
Line Capture	Fit a line to a set of points in the coordinate plane. In later levels, place a point in the plane so that it will be on the line through the given points.
Measuring Angles	Measure angles using a protractor and sketch angles of specified measure.

Measurement and Conversions

Standards Coverage:

Recommended: 4.M.1.1, 4.M.1.2

Game Name	Game Description
Measure It	Measure the length of a gap in US customary units using a ruler.
Capacity	Learn how to convert between cups, pints, quarts and gallons. Practice converting liquid quantities between different units.
Weight Conversions	Convert between pounds and ounces using visual scales. Enter converted values into a table.
Problem Solving With Mass	Solve multi-step situations involving weight conversions.

Multiplication and Division Facts

Standards Coverage:

Recommended: 4.NSO.2.1

Game Name	Game Description
Leg Drape	Practice multiplication facts with a visual scaffold.
Leg Drape	Practice multiplication facts using symbolic language.
Symbolic	Fractice multiplication facts using symbolic language.
Multiplication	Practice Facts with an alternate representation.
Facts	Fractice Facts with an alternate representation.
Fair Sharing	Practice division via fair charing
Visual	Practice division via fair sharing.
Fair Sharing	Practice symbolic division facts via fair sharing
Symbolic	Practice symbolic division facts via fair sharing.
Area Divide	Practice division facts using an area represenation.
Multiplication	Dractice multiplication facts in reverse by placing products on the multiplication table
Table	Practice multiplication facts in reverse by placing products on the multiplication table.
Multiplication	Practice multiplication facts in reverse by placing groups of products on the multiplication table.
Table Grouped	
Concentration	Practice multiplication facts quickly in sequence.
Numbers	

Multi-Digit Multiplication

Standards Coverage:

Recommended: 4.NSO.2.2, 4.NSO.2.3

Game Name	Game Description
Grid	Multiply whole numbers using an area model.
Expressions	
Area	Multiply two-digit whole numbers using visual models.
Multiplication	
Area	Multiply two-digit whole numbers using visual models.
Multiplication 2	

Multi-Digit Division

Standards Coverage:

Recommended: 4.NSO.2.4

Game Name	Game Description
Area Divide	Explore the concept of division using an array model to practice division facts.
Long Division	Divide multi-digit numbers by one-digit divisors using a visual model incorporating place value blocks. This game builds conceptual understanding of the division algorithm.
Long Division with Remainder	Divide multi-digit numbers by one-digit divisors with remainders using a visual model incorporating place value blocks.

Line Plots and Range

Standards Coverage:

Recommended: 4.DP.1.1, 4.DP.1.3, 4.DP.1.2

Game Name	Game Description
Soccer Dot Plots	Record fraction measurements on a number line to create a dot plot.
Eighths	
Dot Plot	Identify which dimension of the given collection of rectangles is represented by the dot plot shown.
Dimension	
What's the	Find the range of a list of whole numbers and bubble select to record the answer.
Range	

Math Challenge 4

Game Name	Game Description
Fraction Bricks	Represent the same length using different partitionings.
Fraction Trap	Estimate on a number line the location of fractions.
Pie Monster	Solve multi-step addition and subtraction problems with fractions and mixed numbers.
Fractions	Solve multi-step addition and subtraction problems with fractions and mixed numbers.
Pie Monster	Fraction and mixed number problems.
Symbolic	Fraction and mixed number problems.
Pie Monster	Multi stan fraction problems
Multi-Step	Multi-step fraction problems.
Bricks	Arrange the shapes to create the composite shape shown.
Shape Types	Identify the given polygon.
Missing Angle	Find the magnitude of the missing angle on a triangle or quadrilateral using facts about the sums of
with Triangles	their interior angles. This game also introduces the use of a protractor as a tool used to measure an angle.
Ice Caves	Shoot lasers through blocks of ice along lines of symmetry. Students identify line-symmetric and asymmetric figures.
Buy Items	Choose the monetary amount needed to purchase a given item.
Fruit Monster	Determine how many pieces of fruit are needed to feed the monsters. Students explore the relationship between inputs and outputs using ratios within a visual model.
Rate Objects	Find an equivalent rate to the one given.

Challenge 4

Game Name	Game Description
Bird Brain	Find birds in a grid after a sequence of transformations.
Venn Space	Place the object in the correct section of the Venn diagram according to its attributes.
Big Seed	Fill all the holes using colored tiles. A group of tiles of the same color can be unfolded along 8 symmetry axes. The color of tiles can also be changed.
Venn Space	Identify the chiest that has the attributes corresponding to a particular section of a Vana diagram
Pick Shape	Identify the object that has the attributes corresponding to a particular section of a Venn diagram.
Dot Shapes	Connect dots to form shapes which will fill holes in the ground.
Concentration	Practice multiplication facts.
Nums	
Ice Caves	Identify lines of symmetry in two-dimensional shapes.
Kick Box	Use lasers and mirrors to move the spheres out of the way so JiJi can pass.

Cognitive Training

Game Name	Game Description
Sorting Fruit	Working memory tasks - help animals collect hidden fruit sequences moving along a conveyor belt.
Shape Match	Working memory tasks - track moving shapes on a grid to match outlines.

Multiplicative Comparison

Game Name	Game Description
Comparison	Use estimation to solve multiplicative or additive comparison problems. Differentiate between multiplicative and additive comparisons.
Bridge	
Estimation	
Comparison	Solve multiplicative or additive comparison problems.
Bridge	
Comparison	Use language to solve multiplicative or additive comparison problems.
Bridge Symbolic	

OPTIONAL OBJECTIVES

Addition and Subtraction Facts

Game Name	Game Description
Push Box	Practice addition facts using visual block representations for sums under 10.
Addition Facts	Fractice addition facts using visual block representations for sums under 10.
Select Box	Durantina addition for the union alternate viewal black manuacantations for a una under 10
Addition Facts	Practice addition facts using alternate visual block representations for sums under 10.
Basic	
Subtraction	Practice subtraction facts under 10 using visual block representations.
Facts	
Select Box	
Subtraction	Practice subtraction facts under 10 using alternate block representations.
Facts	
Ten Frame	Practice addition facts to 20 using ten frames.
Addition Facts	Tractice addition facts to 20 daing territaines.
Ten Frame	
Subtraction	Practice subtraction facts using ten frames.
Facts	
Mixed Facts	Practice addition and subtraction facts using visual block representations.
Addition and	
Subtraction	Practice addition and subtraction facts using a number line representation.
Facts on the	Tractice addition and subtraction facts using a number line representation.
Number Line	
Add Facts	Practice addition facts using a tricky inverted format.
Bridge	1 ractice addition facts using a tricky inverted format.
Concentration	Practice multiple addition and subtraction facts quickly in sequence.
Numbers	1 radiod manipic addition and subtraction radio quickly in sequence.

STANDARDS INDEX

NSO - Number Sense and Operations

Standard	Objective(s)
4.NSO.1.1	Express how the value of a digit in a multi-digit whole number changes if the digit moves one place to the left or right.
	Recommended: Place Value
4.NSO.1.2	Read and write multi-digit whole numbers from 0 to 1,000,000 using standard form, expanded form and word form.
	Recommended: Place Value
4.NSO.1.3	Plot, order and compare multi-digit whole numbers up to 1,000,000.
	Recommended: Place Value; Comparing Whole Numbers
4.NSO.1.4	Round whole numbers from 0 to 10,000 to the nearest 10, 100 or 1,000.
	Recommended: Rounding Whole Numbers
4.NSO.1.5	Plot, order and compare decimals up to the hundredths.
	Recommended: Compare Decimals
4.NSO.2.1	Recall multiplication facts with factors up to 12 and related division facts with automaticity.
	Recommended: Multiplication and Division Facts
	continued on next page

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NSO - Number Sense and Operations (continued)

Standard	Objective(s)
4.NSO.2.2	Multiply two whole numbers, up to three digits by up to two digits, with procedural reliability.
	Recommended: Multi-Digit Multiplication
4.NSO.2.3	Multiply two whole numbers, each up to two digits, including using a standard algorithm with procedural fluency.
	Recommended: Multi-Digit Multiplication
4.NSO.2.4	Divide a whole number up to four digits by a one-digit whole number with procedural reliability. Represent remainders as fractional parts of the divisor.
	Recommended: Multi-Digit Division
4.NSO.2.7	Explore the addition and subtraction of multi-digit numbers with decimals to the hundredths.
	Recommended: Addition and Subtraction Algorithm

FR - Fractions

Standard	Objective(s)
4.FR.1.	Decompose a fraction, including mixed numbers and fractions greater than one, into a sum of fractions with the same denominator in multiple ways. Demonstrate each decomposition with objects, drawings and equations.
	Recommended: Decimal Fractions
4.FR.1.	2 Add and subtract fractions with like denominators, including mixed numbers and fractions greater than one, with procedural reliability
	Recommended: Decimal Fractions
4.FR.1.	3 Explore the addition of a fraction with denominator of 10 to a fraction with denominator of 100 using equivalent fractions.
	Recommended: Fraction Equivalence
4.FR.1.	Extend previous understanding of multiplication to explore the multiplication of a fraction by a whole number or a whole number by a fraction.
	Recommended: Fraction Equivalence
4.FR.2.	Decompose a fraction, including mixed numbers and fractions greater than one, into a sum of fractions with the same denominator in multiple ways. Demonstrate each decomposition with objects, drawings and equations.
	Recommended: Addition and Subtraction with Fractions
	Related: Mixed Numbers
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FR - Fractions (continued)

Standard	Objective(s)
4.FR.2.2	Add and subtract fractions with like denominators, including mixed numbers and fractions greater than one, with procedural reliability.
	Recommended: Addition and Subtraction with Fractions
	Related: Mixed Numbers
4.FR.2.3	Extend previous understanding of multiplication to explore the multiplication of a fraction by a whole number or a whole number by a fraction.
	Recommended: Decimal Fractions
4.FR.2.4	Extend previous understanding of multiplication to explore the multiplication of a fraction by a whole number or a whole number by a fraction.
	Recommended: Fraction Multiplication

AR - Algebraic Reasoning

Standard	Objective(s)
4.AR.1.1	Solve real-world problems involving multiplication and division of whole numbers including problems in which remainders must be interpreted within the context.
	Recommended: Multi-Step Problems Using 4-Operations
4.AR.1.2	Solve real-world problems involving addition and subtraction of fractions with like denominators, including mixed numbers and fractions greater than one.
	Recommended: Addition and Subtraction with Fractions
	Related: Mixed Numbers
4.AR.1.3	Solve real-world problems involving multiplication of a fraction by a whole number or a whole number by a fraction.
	Recommended: Fraction Multiplication
4.AR.3.1	Determine factor pairs for a whole number from 0 to 144. Determine whether a whole number from 0 to 144 is prime, composite or neither.
	Recommended: Factors and Multiples
4.AR.3.2	Generate, describe and extend a numerical pattern that follows a given rule.
	Recommended: Patterns

M - Measurement

Standard		Objective(s)
	4.M.1.1	Select and use appropriate tools to measure attributes of objects.
		Recommended: Measurement and Conversions
	4.M.1.2	Convert within a single system of measurement using the units: yards, feet, inches; kilometers, meters, centimeters, millimeters; pounds, ounces; kilograms, grams; gallons, quarts, pints, cups; liter, milliliter; and hours, minutes, seconds. Recommended: Measurement and Conversions
	4.M.2.1	Solve two step real world problems involving distances and intervals of time using any
	+. .۱۷۱.∠. I	Solve two-step real-world problems involving distances and intervals of time using any combination of the four operations.
		Recommended: Multi-Step Addition and Subtraction Problems

GR - Geometric Reasoning

Standard	Objective(s)
4.GR.1.1	Informally explore angles as an attribute of two-dimensional figures. Identify and classify angles as acute, right, obtuse, straight or reflex.
	Recommended: Lines and Angles
4.GR.1.2	Estimate angle measures. Using a protractor, measure angles in whole-number degrees and draw angles of specified measure in whole-number degrees. Demonstrate that angle measure is additive.
	Recommended: Lines and Angles
4.GR.1.3	Solve real-world and mathematical problems involving unknown wholenumber angle measures. Write an equation to represent the unknown.
	Recommended: Lines and Angles
4.GR.2.1	Solve perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole-number side lengths.
	Recommended: Applying Area and Perimeter

DP - Data Analysis and Probability

Standard		Objective(s)
	4.DP.1.1	Collect and represent numerical data, including fractional values, using tables, stemand-leaf plots or line plots.
		Recommended: Line Plots and Range
	4.DP.1.2	Determine the mode, median or range to interpret numerical data including fractional values, represented with tables, stem-and-leaf plots or line plots.
		Recommended: Line Plots and Range
	4.DP.1.3	Solve real-world problems involving numerical data.
		Recommended: Line Plots and Range

JOURNEY AND BONUS JOURNEY OBJECTIVES

Decimal Place Value

Standards Coverage:

Recommended: 5.NSO.1.1, 5.NSO.1.2, 5.NSO.1.3

Game Name	Game Description
Decimal Greenies	Identify and interpret the digit values of given decimals using place value-based models. This game covers expanded notation and place value concepts to the hundredths place while enforcing the skills of reading and writing decimals.
Decimal Greenies Bubble Select	Identify and interpret the digit values of given decimals using place value-based models. This game covers expanded notation and place value concepts to the hundredths place while enforcing the skills of reading and writing decimals.
Number Line Journey	Represent up to three-place decimals on a number line. Some levels require students to decide which direction to move in at each step to find the given number.
Decimal Place Value	Identify the digit values of given whole numbers and decimals using place value-based models. This game covers expanded notation and place value concepts while enforcing the skills of reading and writing whole numbers and decimals.
Decimal Place Value Pushers	Identify the place of a given digit within a decimal up to the thousandths place. The places are expressed with the words or symbols for the powers of ten.
Expanded Form	Provide a number when given its representation in expanded notation. This game also covers place value concepts to the thousands place while enforcing the skills of reading and writing whole numbers.

Comparing with Decimals

Standards Coverage:

Recommended: 5.NSO.1.4

Game Name	Game Description
Decimal	Order decimals using place value-based methods and the symbols for less than, greater than, and
Comparison	equal to.
Least Most	Identify the least or greatest element in a set of whole numbers (up to four digits).
Decimal Order	
Fill	Help JiJi cross the pit by putting one-, two-, and three-place decimals in order from least to greatest.

Rounding Decimals

Standards Coverage:

Recommended: 5.NSO.1.5

Game Name	Game Description
Number Funnels	Round decimals to the nearest whole number. The game also teaches place value concepts up to the hundredths place.
Decimal Number Funnels	Round decimals to the nearest given place value.

Interpret Expressions

Standards Coverage:

Recommended: 5.AR.2.1, 5.AR.2.4

Game Name	Game Description
Complete Box	Write an expression to describe the area. Includes adding or deducting from the area and nonstandard shapes.
Multiplying with	Learn the meaning of and how to simplify expressions involving variables and parentheses.
Parentheses	
Which	Identify where the parentheses should be placed to make the expression equal to the given value.
Parentheses	

Patterns and Relationships

Standards Coverage:

Recommended: 5.AR.3.1, 5.AR.3.2

Game Name	Game Description
Robot Patterns	Identify and extend geometric patterns of colored squares on a grid.
Pattern Machine	Generate numerical patterns on the number line.
Pattern Machine Rule	Build a rule that describes the relationship between terms in a sequence.
Linear Transform	Select the number that will allow JiJi to cross to the other side. This game teaches the concept of equality through problems involving multiple operations.
Linear Transform Table	Fill in the table with the missing inputs or outputs for a given linear function, or, in other levels, identify the function that corresponds to the given table of inputs and outputs.

Multiplication Algorithm

Standards Coverage:

Recommended: 5.NSO.2.1

Game Name	Game Description
Grid	Multiply whole numbers using an area model.
Expressions	
Area	Multiply two-digit whole numbers using visual models.
Multiplication	
Multiplication	Multiply multi-digit whole numbers by one-digit whole numbers using the standard algorithm.
Algorithm	
Area	Multiply two-digit whole numbers using visual models.
Multiplication 2	

Division Algorithm Strategies

Standards Coverage:

Recommended: 5.NSO.2.2

Game Name	Game Description
Area Divide	Explore the concept of division using an array model to practice division facts.
Long Division	Divide multi-digit numbers by one-digit divisors using a visual model incorporating place value blocks. This game builds conceptual understanding of the division algorithm.
Long Division with Remainder	Divide multi-digit numbers by one-digit divisors with remainders using a visual model incorporating place value blocks.
Long Division Symbolic	Use the long division algorithm to perform division of multi-digit numbers by one-digit divisors.
Long Division with Remainder Symbolic	Use the long division algorithm to perform division of multi-digit numbers by one-digit divisors with a remainder.

Addition and Subtraction with Decimals

Standards Coverage:

Recommended: 5.NSO.2.3

Game Name	Game Description
Place Value	
Align	Learn to align decimals before adding or subtracting.
Estimate	
Addition and	Estimate sums and differences of whole numbers and decimals on a number line.
Subtraction	
Number Line	
Place Value	Identify which place to increase or decrease in order to obtain the second decimal from the first.
River	
Arithmetic	Add one- and two-place decimals using the standard algorithm.
Algorithm	

Multiplying Decimals

Standards Coverage:

Recommended: 5.NSO.2.4

Game Name	Game Description
Money	Multiply money amounts by whole numbers.
Multiplication	
Multiplying	Multiply decimals by whole numbers.
Decimals	

Dividing Decimals

Standards Coverage:

Recommended: 5.NSO.2.4

Game Name	Game Description
Money Division	Divide whole dollar money amounts by whole numbers resulting in decimal money amounts.
Decimal	Divide whole numbers by whole numbers resulting in decimal quotients.
Quotients	
Dividing Dollars	Divide money amounts by whole numbers.
and Cents	
Dividing	Divide decimals by whole numbers.
Decimals	

Common Denominators and Equivalent Fractions

Standards Coverage:

Related: 5.FR.2.1

Game Name	Game Description
Number Line	Identify equivalent fractions using a number line model.
Equivalence	
Fraction Grid	Write one- and two-place decimals as fractions with denominators of 2, 4, 10, or 100.
Common	
Denominator	Partion fractions to create common denominators using models.
Intro	
Pie Monster	Implicitly add two fractions together.

Adding and Subtracting Fractions with Unlike Denominators

Standards Coverage:

Recommended: 5.FR.2.1, 5.AR.1.2

Game Name	Game Description
JiJi Cycle Select	Estimate the location of a fraction represented with a diagram on the number line.
Basket	
Fraction Robot	Add proper and improper fractions with like and unlike denominators using rectangular diagrams
Addition	displaying equal parts of a whole.
Scale Fraction	Add and subtract fractions and mixed numbers on the number line. The fractions and mixed numbers are presented using visual models.
Visual	
Alien Bridge	Learn the meaning of fraction addition using visual models.
Add and	Add and subtract fractions with unlike denominators by creating fractions with common denominators
Subtract Unlike	
Denominators	using a visual model.
Fraction Grid	Select a number of partitions on a given grid to represent the the sum or difference of two fractions.
Alien Bridge	
Symbolic	Learn the meaning of fraction addition using visual models.
Add and	
Subtract Unlike	Add and subtract fractions with unlike denominators symbolically by creating fractions with common
Denominators	denominators.
Symbolic	

Multiplying Fractions

Standards Coverage:

Recommended: 5.FR.2.2, 5.FR.2.3, 5.AR.1.2

Game Name	Game Description
Alien Bridge	Learn to multiply fractions by a whole number using a visual model.
Alien Bridge	Learn to multiply fractions by a whole number using a visual model. This game integrates the
Symbolic	symbolic notation for recording the multiplication equation displayed in the visual model.
Unit Multiples	Multiply fractions and whole numbers using an area model.
Unit	
Multiplication on	Multiply fractions and estimate the locations of the products on a number line.
the Number Line	
Fraction Area	Multiply fractions and whole numbers using an area model.
Scalar	Interpret multiplication as scaling (resizing) through estimation and reasoning about the relative size
Multiplication	of factors and products.

Dividing Fractions

Standards Coverage:

Recommended: 5.FR.1.1, 5.FR.2.4, 5.AR.1.3

Game Name	Game Description
Area Divide	Divide whole numbers by unit fractions. The answers are demonstrated using an area model.
Linear Transform	Multiply and divide whole numbers by unit fractions. In the last level, identify the operation that will transform the first number into the second.
Select Blocks	Fair share blocks amongst critters for questions with fractional answers or dividends.
Per Critter	
Fraction Divisors	Divide a whole number by a unit fraction modeled by fair sharing of blocks.

Volume

Standards Coverage:

Recommended: 5.GR.3.1, 5.GR.3.2, 5.GR.3.3

Game Name	Game Description
Intro to Volume	Calculate the volume of a right rectangular prism and express it using metric or U.S. customary cubic units.
Helicopter	Identify the number of stacks the helicopter should drop in order to fill the hole in the ground.
Volume	
Helicopter	
Volume	Identify the number of stacks the helicopter should drop in order to fill the hole in the ground.
Symbolic	
Volume Fill	Calculate the volume of a right rectangular prism and express it using metric or U.S. customary cubic units.
Area, Perimeter, Volume Select	Calculate the volumes of rectangular and triangular prisms and express them using metric or U.S. customary cubic units.

Converting Measurements

Standards Coverage:

Recommended: 5.M.1.1

Game Name	Game Description
Rate Objects	Find an equivalent rate to the one given.
Capacity	Learn how to convert between cups, pints, quarts and gallons. Practice converting liquid quantities between different units.
Weight	Convert between neurole and current using visual scales. Enter converted values into a table
Conversions	Convert between pounds and ounces using visual scales. Enter converted values into a table.
Problem Solving	
Mass	Solve multi-step situations involving weight conversions.
Conversions	
Unit Conversion	Convert between different units of time using a number line.

Coordinate Plane

Standards Coverage:

Recommended: 5.GR.4.1, 5.GR.4.2

Game Name	Game Description
Coordinate Trap	Select the location of a coordinate pair on a coordinate grid.
Ordered Pairs	Name the coordinate pair for a given point located on a coordinate grid.
Line Capture	Fit a line to a set of points in the coordinate plane. In later levels, place a point in the plane so that it will be on the line through the given points.
Line Capture from Table	Represent the table of input and output values with a straight line in the coordinate plane.

Line Plots Decimals and Mode

Standards Coverage:

Recommended: 5.DP.1.1, 5.DP.1.2

Game Name	Game Description
Soccer Dot Plots	Record fraction measurements on a number line to create a dot plot.
Eighths	
Mode Magnet	Identify the minimum, maximum, or mode value of a distribution of whole numbers and/or decimals
Decimals	shown in a dot plot.
Mode Is Most	Identify the mode of a given collection of decimal numbers.
Decimals	
Mean Height	Find the mean height of a collection of stacks of blocks, or the mean of a collection of numbers.
Mean Dot Plots	Find the mean of the values displayed in a dot plot.

Classifying Shapes

Standards Coverage:

Recommended: 5.GR.1.1

Game Name	Game Description
Shape Names	Identify the given polygon.
Shape Types	Identify different types of triangles (equilateral, acute, etc.) and different types of polygons (rectangle, rhombus, etc).

Math Challenge 5

Game Name	Game Description
Build a Monster	Identify the ratio of the monster arms to monster mouths.
Wall Factory	Choose values for the variables to make the given expression represent the configuration of blocks in the ground.
Which	Identify where the parentheses should be pleased to make the everygain equal to the given value
Parentheses	Identify where the parentheses should be placed to make the expression equal to the given value.
Hungry	
Monsters	Apply multiplicative reasoning to solve multi-step multiplication and division problems.
Variable Stacks	Solve linear equations using a model in which the two sides of the equation are modeled as stacks that need to have equal height.
Scalar	Interpret multiplication as scaling (resizing) through estimation and reasoning about the relative size
Multiplication	of factors and products.
Frac Wall	Solve linear equations using a visual model.
Graph Path	Move the point along a straight line in a coordinate plane.

Challenge 5

Game Name	Game Description
Concentration	Dractice multiplication facts
Nums	Practice multiplication facts.
Big Seed	Find a sequence of actions that will unfold the given image into the desired shape. Teaches the concept of symmetry and the idea of a function or transformation.
Bird Brain	Find birds in a grid after a sequence of transformations.
Dot Shapes	Connect dots to form shapes which will fill holes in the ground.
Ice Caves	Identify lines of symmetry in two-dimensional shapes.
Upright JiJi	Find a sequence of rotations to move JiJi into an upright position.
Kick Box	Use lasers and mirrors to move the spheres out of the way so JiJi can pass.

Cognitive Training

Game Name	Game Description
Sorting Fruit	Working memory tasks - help animals collect hidden fruit sequences moving along a conveyor belt.
Shape Match	Working memory tasks - track moving shapes on a grid to match outlines.

OPTIONAL OBJECTIVES

Multiplication and Division Facts

Game Name	Game Description
Leg Drape	Practice multiplication facts with a visual scaffold.
Leg Drape	Practice multiplication facts using symbolic language
Symbolic	Practice multiplication facts using symbolic language.
Multiplication	Practice Facts with an alternate representation
Facts	Practice Facts with an alternate representation.
Fair Sharing	Durantina diviniana via faiu ale avia a
Visual	Practice division via fair sharing.
Fair Sharing	Disastina assessinatio di della facta si a fair alcanica
Symbolic	Practice symbolic division facts via fair sharing.
Area Divide	Practice division facts using an area represenation.
Multiplication	
Table	Practice multiplication facts in reverse by placing products on the multiplication table.
Multiplication	Durantica prophing in ation for the incompany by placing any one of good sate on the condition to the form
Table Grouped	Practice multiplication facts in reverse by placing groups of products on the multiplication table.
Concentration	Practice multiplication facts quickly in sequence.
Numbers	

Addition and Subtraction Facts

Game Name	Game Description
Push Box	Practice addition facts using visual block representations for sums under 10.
Addition Facts	Practice addition facts using visual block representations for sums under 10.
Select Box	Practice addition facts using alternate visual block representations for sums under 10
Addition Facts	Practice addition facts using alternate visual block representations for sums under 10.
Basic	
Subtraction	Practice subtraction facts under 10 using visual block representations.
Facts	
Select Box	
Subtraction	Practice subtraction facts under 10 using alternate block representations.
Facts	
Ten Frame	Practice addition facts to 20 using ten frames
Addition Facts	Practice addition facts to 20 using ten frames.
Ten Frame	
Subtraction	Practice subtraction facts using ten frames.
Facts	
Mixed Facts	Practice addition and subtraction facts using visual block representations.
Addition and	
Subtraction	Disation addition and subtraction facts using a number line representation
Facts on the	Practice addition and subtraction facts using a number line representation.
Number Line	
Add Facts	Disasting addition facts using a triply inverted format
Bridge	Practice addition facts using a tricky inverted format.
Concentration	Dractice multiple addition and authoration facts quickly in acquence
Numbers	Practice multiple addition and subtraction facts quickly in sequence.

STANDARDS INDEX

NSO - Number Sense and Operations

Standard	Objective(s)
5.NSO.1.1	Express how the value of a digit in a multi-digit number with decimals to the thou sandths changes if the digit moves one or more places to the left or right.
	Recommended: Decimal Place Value
5.NSO.1.2	Read and write multi-digit numbers with decimals to the thousandths using standard form, word form and expanded form.
	Recommended: Decimal Place Value
5.NSO.1.3	Compose and decompose multi-digit numbers with decimals to the thousandths in multiple ways using the values of the digits in each place. Demonstrate the compositions or decompositions using objects, drawings and expressions or equations.
	Recommended: Decimal Place Value
5.NSO.1.4	Plot, order and compare multi-digit numbers with decimals up to the thousandths.
	Recommended: Comparing with Decimals
5.NSO.1.5	Round multi-digit numbers with decimals to the thousandths to the nearest hundredth tenth or whole number.
	Recommended: Rounding Decimals
5.NSO.2.1	Multiply multi-digit whole numbers including using a standard algorithm with procedural fluency.
	Recommended: Multiplication Algorithm

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NSO - Number Sense and Operations (continued)

Standard	Objective(s)
5.NSO.2.2	Divide multi-digit whole numbers, up to five digits by two digits, including using a standard algorithm with procedural fluency. Represent remainders as fractions.
	Recommended: Division Algorithm Strategies
5.NSO.2.3	Add and subtract multi-digit numbers with decimals to the thousandths, including using a standard algorithm with procedural fluency.
	Recommended: Addition and Subtraction with Decimals
5.NSO.2.4	Explore the multiplication and division of multi-digit numbers with decimals to the hundredths using estimation, rounding and place value.
	Recommended: Multiplying Decimals; Dividing Decimals

FR - Fractions

Standard	Objective(s)
5.FR.1.1	Given a mathematical or real-world problem, represent the division of two whole numbers as a fraction.
	Recommended: Dividing Fractions
5.FR.2.1	2.1 Add and subtract fractions with unlike denominators, including mixed numbers and fractions greater than 1, with procedural reliability.
	Recommended: Adding and Subtracting Fractions with Unlike Denominators
	Related: Common Denominators and Equivalent Fractions
5.FR.2.2	Extend previous understanding of multiplication to multiply a fraction by a fraction, including mixed numbers and fractions greater than 1, with procedural reliability.
	Recommended: Multiplying Fractions
5.FR.2.3	When multiplying a given number by a fraction less than 1 or a fraction greater than 1, predict and explain the relative size of the product to the given number without calculating.
	Recommended: Multiplying Fractions
5.FR.2.4	Extend previous understanding of division to explore the division of a unit fraction by a whole number and a whole number by a unit fraction
	Recommended: Dividing Fractions

AR - Algebraic Reasoning

Standard	Objective(s)
5.AR.1.2	Solve real-world problems involving the addition, subtraction or multiplication of fractions, including mixed numbers and fractions greater than 1.
	Recommended: Adding and Subtracting Fractions with Unlike Denominators Multiplying Fractions
5.AR.1.3	Solve real-world problems involving division of a unit fraction by a whole number and a whole number by a unit fraction.
	Recommended: Dividing Fractions
5.AR.2.1	Translate written real-world and mathematical descriptions into numerical expressions and numerical expressions into written mathematical descriptions.
	Recommended: Interpret Expressions
5.AR.2.4	Given a mathematical or real-world context, write an equation involving any of the fou operations to determine the unknown whole number with the unknown in any position
	Recommended: Interpret Expressions
5.AR.3.1	Given a numerical pattern, identify and write a rule that can describe the pattern as an expression.
	Recommended: Patterns and Relationships
5.AR.3.2	Given a rule for a numerical pattern, use a two-column table to record the inputs and outputs.
	Recommended: Patterns and Relationships

M - Measurement

Standard Objective(s)

5.M.1.1 Solve multi-step real-world problems that involve converting measurement units to equivalent measurements within a single system of measurement.

Recommended: Converting Measurements

GR - Geometric Reasoning

Standard Objective(s)

5.GR.1.1 Classify triangles or quadrilaterals into different categories based on shared defining attributes. Explain why a triangle or quadrilateral would or would not belong to a category.

Recommended: Classifying Shapes

5.GR.3.1 Explore volume as an attribute of three-dimensional figures by packing them with unit cubes without gaps. Find the volume of a right rectangular prism with whole-number side lengths by counting unit cubes.

Recommended: Volume

5.GR.3.2 Find the volume of a right rectangular prism with whole-number side lengths using a visual model and a formula.

Recommended: Volume

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GR - Geometric Reasoning (continued)

Standard Objective(s) 5.GR.3.3 Solve real-world problems involving the volume of right rectangular prisms, including problems with an unknown edge length, with whole-number edge lengths using a visual model or a formula. Write an equation with a variable for the unknown to represent the problem. Recommended: Volume 5.GR.4.1 Identify the origin and axes in the coordinate system. Plot and label ordered pairs in the first quadrant of the coordinate plane. **Recommended: Coordinate Plane** 5.GR.4.2 Represent mathematical and real-world problems by plotting points in the first quadrant of the coordinate plane and interpret coordinate values of points in the context of the situation.

Recommended: Coordinate Plane

DP - Data Analysis and Probability

Standard		Objective(s)
	5.DP.1.1	Collect and represent numerical data, including fractional and decimal values, using tables, line graphs or line plots.
		Recommended: Line Plots Decimals and Mode
	5.DP.1.2	Interpret numerical data, with whole-number values, represented with tables or line plots by determining the mean, mode, median or range.
		Recommended: Line Plots Decimals and Mode