

Math Pacing Guide 3rd Grade

*****NOTE: See [NJSL Math](#)

Grade / Math / Unit # 1 - Multiplication and Division				
Time Frame	Primary Math Skills	Instructional Strategy	Academic Vocabulary	Standards & Math Practice
5 days	Building a Math Community <ul style="list-style-type: none"> ● Introduce Math Routines ● Introduce Math online resources - Reflex Math and IXL ● Allow time for students to explore math program ● Model Must Do, Can do items 	Discuss Productive Struggle Growth mindset vs. fixed mindset Model & Practice Daily Math Routines Model and Practice using On-Line Programs Develop Classroom Discussion Norms Assess student's math knowledge		
8 days	Review Second Grade Skills <ul style="list-style-type: none"> ● Place Value ● Addition <ul style="list-style-type: none"> ○ With and without regrouping ● Subtraction <ul style="list-style-type: none"> ○ With and without regrouping ○ Across zeros 	<ul style="list-style-type: none"> ● Second Grade Savvaas materials ● BrainpopJr - Place Value, Adding with regrouping, Subtracting without regrouping, Subtracting with regrouping ● IXL - B2, B3, B4, C1, C7, D1, D4, D8 		3.NBT.A.1 3.NBT.A.2 3.MD.A.2 3.OA.C.7 3.OA.D.8 3.OA.D.9 NBT.3 3.NBT.A.2 3.OA.C.7 3.OA.D.8

<p>10-13 days</p> <p>Topic 1</p>	<ul style="list-style-type: none"> ● Multiplication strategies <ul style="list-style-type: none"> ○ Repeated addition ○ Number line ○ Arrays and properties ● Division strategies <ul style="list-style-type: none"> ○ Partitioning ○ Equal groups ● Appropriate tools 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities E-M; N - 1, 2, 5, 6, 7, 8, 9, 10; O- 1, 3, 4, 5; P- 10, 11; Q-6; S- 10, 11 ● Games ● enVisions 2020 Topic 1 ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● 3-Act Math ● Basic Math Timed Tests ● Performance Tasks ● STEM Activity ● Brain Pop Jr. Videos - Repeated Addition, Arrays, Making Equal Groups 	<ul style="list-style-type: none"> ● Equal groups ● Multiplication ● Factors ● Products ● Equation ● Unknown ● Number line ● Array ● Row ● Column ● Commutative property of multiplication ● division 	<p>3.OA.A.1 - 3.OA.A.3 3.OA.A.5 3.OA.B.5</p> <p>Mathematical Practice: 1-8</p>
<p>9-12 days</p> <p>Topic 2</p>	<ul style="list-style-type: none"> ● Multiplication facts ● Patterns 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities E-M; N - 1, 2, 5, 6, 7, 8, 9, 10; O- 1, 3, 4, 5; P- 10, 11; Q-6; S- 10, 11 ● Games ● enVisions 2020 Topic 2 ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● Performance Task ● STEM activity 	<ul style="list-style-type: none"> ● Multiple ● Identity property of multiplication 	<p>3.OA.A.1 3.OA.A.3 3.OA.A.5 3.OA.A.7 3.OA.A.9</p> <p>Mathematical Practice: 1-8</p>

		<ul style="list-style-type: none"> ● Basic Math Timed Tests ● Brain Pop Jr. Videos - Multiply by 0 and 1 		
10-15 days Topic 3	<ul style="list-style-type: none"> ● Patterns ● Multiplication facts ● Distributive Property ● Associative Property ● Reasoning 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities E-M; N - 1, 2, 5, 6, 7, 8, 9, 10; O- 1, 3, 4, 5; P- 10, 11; Q-6; S- 10, 11 ● Games ● enVisions 2020 Topic 3 ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● 3-Act Math ● Basic Math Timed Tests ● Performance Tasks ● STEM activity 	<ul style="list-style-type: none"> ● Distributive Property ● Associative Property 	<p>3.OA.A.1 - 3.OA.A.3 3.OA.B.5 3.OA.C.7 3.OA.D.9 3.MD.C.7</p> <p>Mathematical Practice: 1-8</p>
11-14 days Topic 4	<ul style="list-style-type: none"> ● Division facts ● Relate multiplication and division ● Patterns 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities E-M; N - 1, 2, 5, 6, 7, 8, 9, 10; O- 1, 3, 4, 5; P- 10, 11; Q-6; S- 10, 11 ● Games ● enVisions 2020 Topic 4 ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● Basic Math Timed Tests ● Performance Tasks 	<ul style="list-style-type: none"> ● Fact family ● Dividend ● Divisor ● Quotient ● Even number ● Odd number 	<p>3.OA.A.3 3.OA.A.4 3.OA.B.5 3.OA.B.6 3.OA.C.7 3.OA.D.8</p> <p>Mathematical Practice: 1-8</p>

		<ul style="list-style-type: none"> • STEM activity • Brain Pop Jr. Videos - Repeated Subtraction 		
2 days Topics 1-4	Benchmark Assessment	<ul style="list-style-type: none"> • Complete online assessment • Review expectations when completing online math assessments 		3.OA.A.1 - 3.OA.A.3 3.OA.A.4 3.OA.A.5 3.OA.A.7 3.OA.A.9 3.OA.B.5 3.OA.B.6 3.OA.C.7 3.OA.D.8 3.OA.D.9 Mathematical Practice: 1-8
9-13 days Topic 5	<ul style="list-style-type: none"> • Multiplication Patterns • Using a Table • Multiplication and Division Word Problems • Writing math stories • Compare expressions 	<ul style="list-style-type: none"> • Manipulatives • Reflex Math • IXL - Activities E-M; N - 1, 2, 5, 6, 7, 8, 9, 10; O- 1, 3, 4, 5; P- 10, 11; Q-6; S- 10, 11 • Games • enVisions 2020 Topic 5 • Flashcards • Review what you know • Pick a Project • Problem Solving Reading Activity • 3-Act Math 	Review Words: <ul style="list-style-type: none"> - Dividend - Divisor - Factor - Product - quotient 	3.OA.A.1 - 3.OA.A.3 3.OA.C.7 3.OA.D.9 Mathematical Practice: 1-8

		<ul style="list-style-type: none"> ● Basic Math Timed Tests ● Performance Tasks ● STEM activity ● Fluency Practice/Assessment ● Brain Pop Jr. Videos - Solving Word Problems 		
9-15 days Topic 6	<ul style="list-style-type: none"> ● Connect area to multiplication and addition ● Area with standard and non standard units ● Area of squares and rectangles ● Using distributive property to find area ● Area of irregular shapes 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities T- 1, 2, 3, 6, 7, 8; U- 4, 5, 6, 7, 8; BB- 3, 4, 5, 6, 7, 13, 14, 15, 16; FF ● Games ● enVisions 2020 Topic 6 ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● Basic Math Timed Tests ● Performance Tasks ● STEM activity ● Fluency Practice/Assessment ● Brain Pop Jr. Videos - Area 	<ul style="list-style-type: none"> ● Area ● Unit square ● Square unit ● Estimate 	<p>3.OA.A.4 3.OA.C.7 3.MD.C.5a 3.MD.C.5b 3.MD.C.6 3.MD.C.7 3.MD.C.7a 3.MD.C.7b 3.MD.C.7c 3.MD.C.7d 3.MC.C.6</p> <p>Mathematical Practices: 1-8</p>

Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> ● IXL ● Slates/Whiteboards ● Kahoot ● Timed Fact Quizzes ● Homework 	<ul style="list-style-type: none"> ● Topic Assessments ● Common Assessment ● Benchmark Assessments ● Performance Tasks

<ul style="list-style-type: none"> • Entrance/Exit Tickets • Daily Practice • Additional Practice 	
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> • enVisions 2020 	<ul style="list-style-type: none"> • Reflex Math • IXL • Prodigy • Khan Academy • GoFormative • Brainpop • YouTube

Unit 1 Appendix

Grade 3 / Math / Unit #2 Data				
Time	Primary Math Skills	Instructional Strategy	Academic	Standards &

Frame			Vocabulary	Math Practice
8-10 days Topic 7	<ul style="list-style-type: none"> • Read and interpret picture and bar graphs • Make picture and bar graphs • Solve word problems using information in graphs 	<ul style="list-style-type: none"> • Manipulatives • Reflex Math • IXL - Activities T- 1, 2, 3, 6, 7, 8; U- 4, 5, 6, 7, 8; BB- 3, 4, 5, 6, 7, 13, 14, 15, 16; FF • Games • enVisions 2020 Topic 7 • Flashcards • Review what you know • Pick a Project • Problem Solving Reading Activity • 3-Act Math • Basic Math Timed Tests • Performance Tasks • STEM activity • Fluency Practice/Assessment • Brain Pop Jr. Videos - Line graphs, Pictographs, Tally Charts and Bar Graphs 	<ul style="list-style-type: none"> • Data • Scaled Picture Graph • Scale • Scaled Bar Graph • Key • Frequency Table • Survey 	3.OA.3 3.OA.D.8 3.MD.B.3 NBT.3 Mathematical Practice: 1-8

Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> • IXL • Slates/Whiteboards • Kahoot • Timed Fact Quizzes • Homework • Entrance/Exit Tickets 	<ul style="list-style-type: none"> • Topic Assessments • Common Assessment • Benchmark Assessments • Performance Tasks

<ul style="list-style-type: none"> • Daily Practice • Additional Practice 	
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> • enVisions 2020 	<ul style="list-style-type: none"> • Reflex Math • IXL • Prodigy • Khan Academy • GoFormative • Brainpop • YouTube

Grade 3 / Math / Unit #3 Operations				
Time Frame	Primary Math Skills	Instructional Strategy	Academic Vocabulary	Standards & Math Practice
10-15 days Topic 8	<ul style="list-style-type: none"> • Addition properties and patterns • Mental math: addition and subtraction • Rounding • Estimating sums and differences 	<ul style="list-style-type: none"> • Manipulatives • Reflex Math • IXL - Activities A- 7, 9, 10, 11, 12, 13; B-D; N- 3, 4; O- 2; P- 1, 2, 5, 6, 7, 8; Q- 5 • Games • enVisions 2020 Topic 8 • Flashcards • Review what you know • Pick a Project • Problem Solving Reading Activity • Basic Math Timed Tests • Performance Tasks 	<ul style="list-style-type: none"> • Associative Property of Addition • Commutative Property of Addition • Identity Property of Addition • Open number line • Inverse Operations 	3.NBT.A.1 3.NBT.A.2 3.MD.A.2 3.OA.C.7 3.OA.D.8 3.OA.D.9 NBT.3 Mathematical Practice: 1-8

		<ul style="list-style-type: none"> • STEM activity • Fluency Practice/Assessment • Brain Pop Jr. Videos - Rounding 	<ul style="list-style-type: none"> • Round • Place Value 	
2 Days	Benchmark Assessment 1-8	<ul style="list-style-type: none"> • Complete online assessment • Review expectations when completing online math assessments 		See above standards
10-12 days Topic 9	<ul style="list-style-type: none"> • Partial Sums • Regrouping for addition • Adding 3 or more numbers • Partial differences • Regrouping to subtract • Using strategies to add and subtract • Construct arguments 	<ul style="list-style-type: none"> • Manipulatives • Reflex Math • IXL - Activities A- 7, 9, 10, 11, 12, 13; B-D; N- 3, 4; O- 2; P- 1, 2, 5, 6, 7, 8; Q- 5 • Games • enVisions 2020 Topic 9 • Flashcards • Review what you know • Pick a Project • Problem Solving Reading Activity • 3-Act Math • Basic Math Timed Tests • Performance Tasks • STEM activity • Fluency Practice/Assessment • Brain Pop Jr. Videos - Adding with Regrouping, Adding without regrouping, Subtracting with 	<ul style="list-style-type: none"> • Regroup • Conjecture 	<p>3.NBT.A.2 3.OA.C.7 3.OA.D.8</p> <p>Mathematical Practice: 1-8</p>

		regrouping, Subtracting without regrouping		
6-8 Days Topic 10	<ul style="list-style-type: none"> • Multiplication patterns • Mental math: multiplication • Use properties to multiply • Look for and use structures 	<ul style="list-style-type: none"> • Manipulatives • Reflex Math • IXL - Activities E-M; N - 1, 2, 5, 6, 7, 8, 9, 10; O- 1, 3, 4, 5; P- 10, 11; Q-6; S- 10, 11 • Games • enVisions 2020 Topic 11 • Flashcards • Review what you know • Pick a Project • Problem Solving Reading Activity • Basic Math Timed Tests • Performance Tasks • STEM activity • Fluency Practice/Assessment 	Review Multiplication Property Vocabulary	3.NBT.A.3 3.OA.A.3 3.OA.B.5 3.OA.D.8 3.OA.D.9 Mathematical Practice: 1-8
7-10 Days Topic 11	<ul style="list-style-type: none"> • 2 step word problems: addition and subtraction • 2 step word problems: multiplication and division • 2 step word problems: all operations • Critique reasoning 	<ul style="list-style-type: none"> • Manipulatives • Reflex Math • IXL - Activities E-M; N - 1, 2, 5, 6, 7, 8, 9, 10; O- 1, 3, 4, 5; P- 10, 11; Q-6; S- 10, 11 • Games • enVisions 2020 Topic 10 • Flashcards • Review what you know • Pick a Project • Problem Solving Reading Activity 		3.OA.C.7 3.OA.D.8 3.NBT.A.2 3.MD.B.3 Mathematical Practices 1-8

		<ul style="list-style-type: none"> ● Basic Math Timed Tests ● Performance Tasks ● STEM activity ● 3 Act Math ● Fluency Practice/Assessment ● Brain Pop Jr. Videos - Choosing an Operation 		
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Formative Assessment Plan		Summative Assessment Plan	
<ul style="list-style-type: none"> ● IXL ● Slates/Whiteboards ● Kahoot ● Timed Fact Quizzes ● Homework ● Entrance/Exit Tickets ● Daily Practice ● Additional Practice 		<ul style="list-style-type: none"> ● Topic Assessments ● Common Assessment ● Benchmark Assessments ● Performance Tasks 	
Main Resources		Supplementary Resources	
<ul style="list-style-type: none"> ● enVisions 2020 		<ul style="list-style-type: none"> ● Reflex Math ● IXL ● Prodigy ● Khan Academy ● GoFormative ● Brainpop ● YouTube 	

Grade 3 / Math / Unit #4 Fractions

Time Frame	Primary Math Skills	Instructional Strategy	Academic Vocabulary	Standards & Math Practice
10-15 days Topic 12	<ul style="list-style-type: none"> ● Partitioning into equal parts ● Fractions and regions ● Understanding the whole ● Number lines: fractions less and greater than 1 ● Line plots and length 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities W-Z ● Games ● Fraction Tiles ● Fraction Cards/Circles ● Number Line ● enVisions 2020 Topic 12 ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● Basic Math Timed Tests ● Performance Tasks ● STEM activity ● Fluency Practice/Assessment ● Brain Pop Jr. Videos - Basic Parts of a Whole, More Fractions 	<ul style="list-style-type: none"> ● Fraction ● Unit Fraction ● Numerator ● Denominator ● Nearest half inch ● Line plot ● Nearest fourth inch 	3.NF.A.1 3.NF.A.3c 3.G.A.2 3.NF.A.2a 3.NF.A.2b 3.MD.B.4 Mathematical Practice: 1-8
2 Days	Benchmark Assessment 1-12	<ul style="list-style-type: none"> ● Complete online assessment ● Review expectations when completing online math assessments 		See above standards
10-15 days	<ul style="list-style-type: none"> ● Equivalent Fractions <ul style="list-style-type: none"> ○ Use models ○ Use number lines 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities W-Z 	Equivalent fractions	3.NF.A.3a 3.NF.A.3b 3.NF.A.3c

Topic 13	<ul style="list-style-type: none"> ● Compare fractions <ul style="list-style-type: none"> ○ Same denominator ○ Same numerator ○ Use benchmarks ○ Use number line ● Whole numbers and fractions ● Construct arguments 	<ul style="list-style-type: none"> ● Games ● Fraction Tiles ● Fraction Cards/Circles ● Number Line ● enVisions 2020 Topic 13 ● 3 Act Math ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● Basic Math Timed Tests ● Performance Tasks ● STEM activity ● Fluency Practice/Assessment ● Brain Pop Jr. Videos - Equivalent Fractions 		<p>3.NF.A.3d</p> <p>Mathematical Practice: 1-8</p>
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Formative Assessment Plan	Summative Assessment Plan
<ul style="list-style-type: none"> ● IXL ● Slates/Whiteboards ● Kahoot ● Timed Fact Quizzes ● Homework ● Entrance/Exit Tickets ● Daily Practice ● Additional Practice 	<ul style="list-style-type: none"> ● Topic Assessments ● Common Assessment ● Benchmark Assessments ● Performance Tasks
Main Resources	Supplementary Resources
<ul style="list-style-type: none"> ● enVisions 2020 	<ul style="list-style-type: none"> ● Reflex Math

- IXL
- Prodigy
- Khan Academy
- GoFormative
- Brainpop
- YouTube

Grade / Math / Unit # 5 - Measurement

Grade / Math / Unit # 5 - Measurement				
Time Frame	Primary Math Skills	Instructional Strategy	Academic Vocabulary	Standards & Math Practice
11-16 days Topic 14	<ul style="list-style-type: none"> ● Time <ul style="list-style-type: none"> ○ To the minute ○ Elapsed time ○ Word problems ● Liquid volume <ul style="list-style-type: none"> ○ Estimating ○ Measuring ● Mass <ul style="list-style-type: none"> ○ Estimating ○ Measuring ● Solve word problems involving mass and liquid volume ● reasoning 	<ul style="list-style-type: none"> ● enVisions 2020 Topic 14 ● IXL - Activities T- 1, 2, 3, 6, 7, 8; U- 4, 5, 6, 7, 8; BB- 3, 4, 5, 6, 7, 13, 14, 15, 16; FF ● Clocks ● Examples of measurement for mass and capacity ● Manipulatives ● Games ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● Basic Math Timed Tests 	Elapsed Time A.M. P.M. Time interval Capacity (liquid volume) Liter (L) Mass Gram (g) Kilogram (kg)	3.MD.A.1 3.MD.A.2 3.NBT.A.2 3.OA.A.3 3.OA.C.7 Mathematical Practices 1-8

		<ul style="list-style-type: none"> ● Performance Tasks ● STEM activity ● Fluency Practice/Assessment ● Brainpop Jr - Time to the hour, Time to the minute, Time to the quarter and half hour, Elapsed time, Milliliters and Liters, Grams and Kilograms 		
7-10 days Topic 15	<ul style="list-style-type: none"> ● Describe quadrilaterals ● Classify shapes ● Analyze and compare quadrilaterals ● precision 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities CC 1, 2, 3, 4; DD 4; EE ● Games ● enVisions 2020 Topic 15 ● Patterns Blocks ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● 3-Act Math ● Basic Math Timed Tests ● Performance Tasks ● STEM Activity ● Geometry scavenger hunt ● Geocity (connect to SS) ● Brainpop Jr - Polygons, Quadrilaterals 	Polygon Sides Quadrilateral Angles Vertex Trapezoid Parallelogram Rectangle Right Angles Rhombus Square Convex Concave	3.G.A.1 3.G.A.2 3.NF.A.1 3.MD.C.5b 3.MD.C.7b Mathematical Practice: 1-8
8-11 Days	<ul style="list-style-type: none"> ● Perimeter <ul style="list-style-type: none"> ○ Common shapes ○ Unknown side lengths 	<ul style="list-style-type: none"> ● Manipulatives ● Reflex Math ● IXL - Activities T- 1, 2, 3, 6, 	Perimeter Equilateral Triangle	3.OA.A.3 3.OA.C.7

Topic 16	<ul style="list-style-type: none"> ○ Same perimeter, different area ○ Same area, different perimeter ● reasoning 	<p>7, 8; U- 4, 5, 6, 7, 8; BB- 3, 4, 5, 6, 7, 13, 14, 15, 16; FF</p> <ul style="list-style-type: none"> ● Games ● enVisions 2020 Topic 16 ● Flashcards ● Review what you know ● Pick a Project ● Problem Solving Reading Activity ● Performance Task ● STEM activity ● Basic Math Timed Tests ● Brainpop Jr - Perimeter 		<p>3.OA.D.8 3.MD.C.7 3.MD.D.8</p> <p>Mathematical Practice: 1-8</p>
2 days	Benchmark Assessment	<ul style="list-style-type: none"> ● Complete online assessment ● Review expectations when completing online math assessments 		See above standards