Window Rock Unified School District #8 – Tsehootsooi Primary Learning Center

SCHOOL YEAR 2020-2021 **CURRICULUM GUIDE**

SUBJECT: MATH **GRADE: THIRD-GRADE** **TIMELINE: 1st Quarter**

Core Standard	Kid Friendly Learning Objectives	Essential Question	Content Skill	Assessment Method	Instructional Strategies/ Resources	DOK Level	Mathematical Practice
3.OA.A.1 Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each.	I can understand how to model multiplication by using equal groups and arrays to show the factors and products.	How can I find the total number of objects in equal groups?	Find the product of multiple groups of objects. Interpret products of whole numbers as a total number of objects in a number of groups.	GoMath: Chapter 3 Test: 1, 5, 8, 17, 18 Chapter 4 Performance Assessment: 1–4 Critical Area 1 Performance Assessment: 3, 4 Beginning/Middle/End of Year Test: 17		1 2	MP1 Make sense of problems and persevere in solving them. MP4 Model with mathematics. MP7 - Look for and make use of structure.
3.OA.A.2 Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a	I will be able to develop an understanding of division strategies within 100. I will also be able to use my choice of strategies to solve any problems.	When you divide what do you find?	Know what the numbers in a division problem represent. Explain what division means and how it relates to equal shares or the number of groups when a set of objects is divided equally.	GoMath Chapter 6 Test: 2, 5, 8, 12, 14, 17, 20 Chapter 6 Performance Assessment: 1–4 Critical Area 1 Performance Assessment: 5 Beginning/Middle/End of Year Test: 10, 11		1 2	MP1 Make sense of problems and persevere in solving them. MP4 Model with mathematics. MP7 - Look for and make use of structure.

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number of shares when 56 objects are partitioned into equal shares of 8 objects each.							
3.OA.C.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.	I can understand how to model multiplication by using equal groups and arrays to show the factors and products. I will be able to develop and understanding of multiplication and division strategies within 100. I will also be able to use my choice of strategies to solve any problems. I will be able to develop an understanding of	How do I know when to use multiplication or division to solve a problem?	Multiply and divide within 100. Solve word problems in situations involving equal groups, arrays, and measurement quantities. Represent a word problem using a picture and an equation with a symbol for the unknown number.	GoMath Chapter 3 Test: 3, 4, 9, 11, 14 Chapter 4 Test: 1, 6, 9, 13, 18, 20 Chapter 6 Test: 3, 4, 7, 10, 11, 15 Chapter 7 Test: 1–3, 9, 13, 16, 17 Chapter 3 Performance Assessment: 1–5 Chapter 4 Performance Assessment: 1–4 Chapter 6 Performance Assessment: 1–4 Chapter 7 Performance Assessment: 1–4 Beginning/Middle/End of Year Test: 19, 21		1 2	MP1 Make sense of problems and persevere in solving them. MP4 Model with mathematics. MP7 - Look for and make use of structure.

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3.OA.A.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers. *For example, determine the unknown number that makes the equation true in each of the equations 8 × ? = 48, 5 = _ ÷ 3, 6 × 6 = ?*	I will be able to develop an understanding of division strategies within 100. I will also be able to use my choice of strategies to solve any problems.	In what ways can multiplication and divisions affect numbers? How does multiplication and division offer efficient ways to get an answer?	Multiply an divide within 100. Determine which operation (multiplication or division) is needed to determine the unknown whole number. Solve to find the unknown whole number in a multiplication or division equation.	Go Math Chapter 5 Test: 1, 3, 6, 15, 17 Chapter 5 Performance Assessment: 2, 4, 5 Chapter 7 Performance Assessment: 1–4 Critical Area 1 Performance Assessment 3, 4, 5 Beginning/Middle/End of Year Test: 26		1 2	MP1 Make sense of problems and persevere in solving them. MP2 - Reason abstractly and quantitatively. MP6 – Attend to precision. MP7 - Look for and make use of structure.
3.OA.B.5 Determine the unknown whole number in a multiplication or division equation relating three whole numbers.	I can understand how to model multiplication by using equal groups and arrays to show the factors and products. I will be able to develop and understanding of	What are the properties of multiplication and division?	Multiply an divide within 100. Explain how the properties of operations work. Apply properties of operations as	GOmATH Chapter 3 Test: 2, 7, 12, 13, 16 Chapter 4 Test: 5, 10, 15, 16, 19, 21 Chapter 6 Test: 1, 13 Chapter 3 Performance Assessment: 5 Chapter 4 Performance		1 2	MP1 Make sense of problems and persevere in solving them. MP4 Model with mathematics.

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	multiplication and division strategies within 100. I will also be able to use my choice of strategies to solve any problems. I will be able to develop an understanding of division strategies within 100. I will also be able to use my choice of strategies to solve any problems.		strategies to multiply and divide.	Assessment: 3 Critical Area 1 Performance Assessment: 4 Beginning/Middle/End of Year Test: 9, 18, 44, 45			MP7 - Look for and make use of structure. MP8 - Look for and express regularity in repeated reasoning.
3.OA.B.6 Understand division as an unknown-factor problem.	I will be able to develop an understanding of division strategies within 100. I will also be able to use my choice of strategies to solve any problems.	In what ways can division affect numbers?	Identify the multiplication problem as related to the division problem. Identify the unknown factor in the related multiplication problem.	GoMath Chapter 6 Test: 9, 18 Critical Area 1 Performance Assessment: 5 Chapter 6 Performance Assessment: 3		1 2	MP1 Make sense of problems and persevere in solving them. MP7 - Look for and make use of structure.

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			Recognize multiplication and division as related operations and explain how they are related. Use multiplication to solve division problems.				
3.OA.C.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 × 5 = 40, one knows 40 ÷ 5 = 8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.	I will be able to develop and understanding of multiplication and division strategies within 100. I will also be able to use my choice of strategies to solve any problems. I will be able to develop an understanding of division strategies within 100. I will also be able to use my choice of strategies to solve any problems.	Which strategy is most efficient when solving multiplication and division problems? Why do we need math facts?	Know from memory all products of two-digit numbers. Fluently multiply and divide within 100. Analyze a multiplication or division problem in order to chose an appropriate strategy to fluently multiply	GoMath Chapter 4 Test: 2, 4, 8, 11, 14, 17, 23 Chapter 6 Test: 6, 16, 19 Chapter 7 Test: 4–7, 10, 11, 15, 18, 19 Chapter 4 Performance Assessment: 1–4 Chapter 7 Performance Assessment: 1–4 Beginning/Middle/End of Year Test: 12, 30, 31, 42, 43		1 2	MP2 - Reason abstractly and quantitatively. MP7 - Look for and make use of structure. MP8 - Look for and express regularity in repeated reasoning.

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			or divide within 100.				
3.OA.D.8: Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	I can understand how to model multiplication by using equal groups and arrays to show the factors and products. I will be able to develop and understanding of multiplication and division strategies within 100. I will also be able to use my choice of strategies to solve any problems. I will be able to develop an understanding of division strategies within 100. I will also be able to use my choice of strategies to solve any problems.	Why is it important to develop an equation to determine an unknown quantity in a two-step word problem? What strategies can be used to solve two-step word problem using the four operations?	Know the order of operations. Know strategies for estimating and mental computation. Construct an equation with a letter standing for the unknown quantity. Solve two-step problems using the four operations. Justify answers to problems using various estimation strategies.	GoMath Chapter 1 Test: 17, 18 Chapter 2 Test: 1, 2, 8, 11 Chapter 3 Test: 6, 10, 15, 19 Chapter 4 Test: 3, 12 Chapter 7 Test: 8, 12, 14, 20 Chapter 3 Performance Assessment: 4, 5 Chapter 4 Performance Assessment: 4 Chapter 7 Performance Assessment: 4 Beginning/Middle/End of Year Test: 20, 32, 33, 46		1 2	MP1 Make sense of problems and persevere in solving them. MP2 - Reason abstractly and quantitatively. MP4 Model with mathematics. MP5 Use appropriate tools strategically..

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3.OA.D.9: Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. *For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends*.	I will be able to develop and understanding of multiplication and division strategies within 100. I will also be able to use my choice of strategies to solve any problems.	Where can you see patterns in our world? How do patterns help us understand our world?	Identify arithmetic patterns. Explain rules for a pattern using properties of operations. Explain relationships between the numbers in a pattern.	GoMath Chapter 1 Test: 1, 2 Chapter 4 Test: 7, 22 Chapter 5 Test: 11–14 Chapter 5 Performance Assessment: 1 Beginning/Middle/End of Year Test: 29		1 2 3	MP1 Make sense of problems and persevere in solving them. MP2 - Reason abstractly and quantitatively. MP3 – Construct viable arguments and critique the reasoning of others. MP6 – Attend to precision. MP7 - Look for and make use of structure.

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