

Mohawk Local Schools Grade 4 Math

Quarter 1 Curriculum Guide

<u>Mathematical Practices</u>		
1. Make Sense of Problems and Persevere in Solving them		
2. Reasoning Abstractly & Quantitatively		
3. Construct Viable Arguments and Critique the Reasoning of Others		
4. Model with Mathematics		
5. Use Appropriate Tools Strategically		
6. Attend to Precision		
7. Look for and Make use of Structure		
8. Look for and Express Regularity in Repeated Reasoning		
Critical Areas of Focus Being Addressed:		
 Multiplication and Division 		
• Fractions		
 Geometry 		
Content Statements Addressed and Whether	Underpinning Targets Corresponding with	
they are Knowledge, Reasoning, Performance	Standards and Whether they are Knowledge,	
Skill, or Product:	Reasoning, Performance Skill, or Product: "I	
(DOK1) (DOK2) (DOK3)	can", "Students Will Be Able To"	
(DOK4)		
4.0A.1 Interpret a multiplication equation as	-Know multiplication strategies	
a comparison, e.g., interpret 35=5x7 as a	-Interpret a multiplication equation as a	
statement that 35 is 5 times as many as 7 and	comparison (e.g. 18 = 3 times as many as 6.	
7 times as many as 5. Represent verbal	-Represent verbal statements of multiplicative	
statements of multiplicative comparisons as	comparisons as multiplication equations	
multiplication equations. (DOK2)		
4.0A.5 Generate a number or shape pattern	-Identify a number or shape pattern	
that follows a given rule. Identify apparent	-Generate a number or shape pattern that	
features of the pattern that were not explicit	follows a given ruleAnalyze a pattern to	
in the rule itself. (DOK2)	determine features not apparent in the rule	
	(always odd or even, alternates between odd	
	and even, etc.)	
4.0A.4 Find all factor pairs for a whole	-Define prime and composite numbers.	
number in the range 1-100. Recognize that a	-Know strategies to determine whether a whole	
whole number is a multiple of each of its	number is prime or composite.	

factors. Determine whether a given whole	-Identify all factor pairs for any given number
number in the range 1-100 is a multiple of a	1-100Recognize that a whole
given one-digit number. Determine whether a	number is a multiple of each of its factors.
given whole number in the range 1-100 is	-Determine if a given whole number (1-100) is
prime or composite. (DOK2)	a multiple of a given one-digit number.
4.0A.3 Solve multistep word problems posed	-Divide whole numbers including division with
with whole numbers and having whole-	remainders.
number answers using the four operations,	-Represent multi-step word problems using
including problems in which remainders must	equations with a letter standing for the
be interpreted. Represent these problems	unknown quantity.
using equations with a letter standing for the	-Interpret multistep word problems (including
unknown quantity. Assess the reasonableness	problems in which remainders must be
of answers using mental computation and	interpreted) and determine the appropriate
estimation strategies including rounding.	operation(s) to solve.
(DOK2)	-Assess the reasonableness of an answer in
	solving a multistep word problem using mental
	math and estimation strategies (including
4042 Multiply or divide to colve word	rounding)
4.0A.2 Multiply of divide to solve word	-Multiply of divide to solve word problems.
o g by using drawings and equations with a	-Describe induplicative comparison.
e.g., by using all awings and equations with a	-Describe additive comparison.
the problem distinguishing multiplicative	word problems involving multiplicative
comparison from additive comparison	comparison
(DOK2)	-Determine and use a variety of representations
	to model a problem involving multiplicative
	comparison.
	-Distinguish between multiplicative
	comparison and additive comparison (repeated
	addition).
4.NBT.2 Read and write multi-digit whole	-Read and write multi-digit whole numbers
numbers using base-ten numerals, number	using base-ten numerals, number names, and
names, and expanded form. Compare two	expanded form.
multi-digit numbers based on meanings of the	-Compare two multi-digit numbers based on
digits in each place, using <, =, and < symbols	meanings of the digits in each place, using >, =,
to record the results of comparisons. (DOK2)	and < symbols to record the results of
	comparisons.
4NBT.1 Recognize that in a multi-digit whole	-Recognize that in a multi-digit whole number,
number, a digit in one place represents ten	a digit in one place represents ten times what it
times what it represents in the place to its	represents in the place to its right.
right. (DOK2)	
4NBT.3 Use place value understanding to	-Round multi-digit whole numbers to any place
round multi-digit whole numbers to any place.	using place value
(DOK2)	
4NBT.4 Fluently add and subtract multi-digit	-Fluently add and subtract multi-digit whole

whole numbers using the standard algorithm.	numbers less than or equal to 1,000,000 using
(DOK1)	the standard algorithm.
4.NBT.5 Multiply a whole number of us to	-Multiply a whole number of up to four digits by
four digits by a one-digit whole number, and	a one-digit whole number.
multiply two two-digit numbers, using	-Multiply two two-digit numbers.
strategies based on place value and the	-Use strategies based on place value and the
properties of operations. Illustrate and	properties of operations to multiply whole
explain the calculation by using equations	numbers.
rectangular arrays, and/or area models.	-Illustrate and explain calculations by using
(DOK2)	written equations, rectangular arrays, and/or
	area models.