



Marietta City Schools District Topic Planner

Fourth Grade

Topic Title	<i>Topic 3: Use Strategies and Properties to Multiply by 1-Digit Numbers</i>	Unit duration	<i>8 days</i>
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Big Idea: Numbers and Operations - Multiplication

[Georgia Standards of Excellence](#)

Understand place value.

■ **4.NBT.1** Recognize that in a multi-digit whole number, a digit in any one place represents ten times what it represents in the place to its right. *For example, recognize that $700 \div 70 = 10$ by applying concepts of place value and division.*

■ **4.NBT.2** Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons. Standard will require additional resources.

Use the four operations with whole numbers to solve problems.

■ **4.NBT.5 (4 digits by 1 digit ONLY)** Multiply a whole number of up to four digits by a one-digit whole number, ~~and multiply two two-digit numbers~~, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

■ **4.OA.3** Solve multistep word problems with whole numbers and have whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a symbol or letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

■ Major work of the grade □ Supporting standard ● Additional standard

Informational Links

[GSE Unit 4 frameworks: Multiplication and Division of Whole Numbers](#)

[MCS Math Instructional Framework](#)

[MCS Math Instructional Framework with Resource Guidance](#)

About the Math

[GaDOE:Grade 4 Standards Overview Document](#)

[GaDOE: What Do Standards Look Like in Fourth Grade?](#)

Topic 3: Learning Resources

4.NBT.1, 4.NBT.2, 4.NBT.5, 4.OA.3

Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 3-1	Multiply by Multiples of 10, 100, and 1,000 Savvas pp. 77-84	Students will multiply by multiples of 10 using mental math and place value strategies. Review NBT1.	4.NBT.1 4.NBT.5
Supplemental 3-1	Multiplying by 10, 100 and 1,000 MIP Module 3 pp. 53-54	Students roll a number and explore what happens when they multiply by 10, 100 and 1,000.	4.NBT.1 4.NBT.5
Savvas 3-3	Use Arrays and Partial Products to Multiply Savvas pp. 89-92	Students will use arrays and partial products to multiply 2 and 3 digit numbers by 1 digit numbers.	4.NBT.5
Supplemental 3-3	Using Arrays and Partial Products to Multiply Savvas Intervention Activity TE pp. 92A	Students use base ten blocks to build arrays and multiply.	4.NBT.5
Savvas 3-4	Use Area Models and Partial Products to Multiply Savvas pp. 93-96	Students will use the area model and distributive property to multiply large numbers.	4.NBT.5
Supplemental 3-4	Developing the Area Model MIP Module 3 pp. 92-93	Students extend the area model they used in third grade for multiplying single-digit factors to multiply by a 2 digit factor.	4.NBT.5
Savvas 3-5	More use of Area Models and Partial Products to Multiply Savvas pp. 97-100	Students will use place value and partial products to multiply 3 and 4 digit numbers by 1 digit numbers.	4.NBT.2 4.NBT.5

Supplemental 3-5	Exploring Multiplication MIP Module 3 pp. 98-99	Students extend their understanding of multiplication and rectangle models.	4.NBT.2 4.NBT.5
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Additional Resources		
4.NBT.1, 4.NBT.2, 4.NBT.5, 4.OA.3		
Standards Addressed	Lesson	Lesson Description
4.OA.1-5 4.NBT.5-6	GaDOE Culminating Task: School Newspaper	Students plan how much paper to purchase in order to stay within a budget when producing a school newspaper.
4.NBT.4 4.NBT.5	GaDOE 3-ACT Task: Boxes and Rolls:	Students multiply and divide whole numbers to determine how many pennies are equivalent to the amount of money shown in an image.

Assessment Resources			
4.NBT.1, 4.NBT.2, 4.NBT.5, 4.OA.3			
Type	Location	Assessment Description	Standards Addressed
Formative	MCS Mini	Students use a variety of strategies to solve multiplication problems.	4.NBT.5
Formative	MIP Module 5 p. 95	Students use multiplication to determine the total number of books.	4.NBT.5
Formative	MIP Module 5 p. 99	Students use multiplication to determine the total number of books in a shipment.	4.NBT.5

Summative	Savvas Topic Assessment TE pp. 119-122	Students use a variety of strategies to solve multiplication problems. Digital and print form available through Savvas platform.	4.NBT.1 4.NBT.2 4.NBT.5 4.OA.3
Summative	Savvas Topic Performance Task TE pp. 123-124	Students use a real-life scenario involving a reading contest and pages to multiply whole numbers.	4.NBT.1 4.NBT.2 4.NBT.5 4.OA.3