



Marietta City Schools District Topic Planner

Fourth Grade

Topic Title	<i>Topic 4: Use Strategies and Properties to Multiply by 2-Digit Numbers</i>	Unit duration	<i>9 days</i>
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Big Idea: Numbers and Operations - Multiplication

[Georgia Standards of Excellence](#)

Use the four operations with whole numbers to solve problems.

■ **4.NBT.5 (2 digits by 2 digits 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 2 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 4: Learning Resources

4.NBT.5 and 4.OA.3

Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 4-1	Multiply with Multiples of 10 Savvas pp. 125-132	Students will use mental math strategies to multiply 2 digit multiples of 10 by a 2 digit multiple of 10. (20x40)	4.NBT.5 4.OA.3
Supplemental 4-1	Mental Maneuvers MIP Module 5 pp. 91-92	Students play a game to revisit multiplying by multiples of ten.	4.NBT.5 4.OA.3
Savvas 4-2	Use Models to Multiply 2-digit by 2-digit Multiples of 10 Savvas pp. 133-136	Students will use models and properties of operations to multiply 2- digit numbers by a multiple of 10. (22x40)	4.NBT.5
Supplemental 4-2	Modeling 2-digit by 2 Digit MIP Module 5 pp. 103-106	Students explore using area and rectangle models when multiplying a 2-digit number by a 2-digit number.	4.NBT.5
Savvas 4-4	Arrays and Partial Products Savvas pp. 141-144	Students will use arrays, partial products, and properties of operations to multiply 2-digit numbers.	4.NBT.5
Supplemental 4-4	Array and Partial products Savvas Intervention Activity T.E p. 144A	Students use grid paper to show partial products.	4.NBT.5
Savvas 4-5	Area Models and Partial Products Savvas pp. 145-148	Students will use the distributive property and area model to multiply two 2 digit numbers. (22x42)	4.NBT.5
Supplemental 4-5	Using the Distributive Property Savvas Intervention Activity T.E p. 148A	Students use crayons and markers to model the distributive property.	4.NBT.5
Savvas 4-6	Use Partial Products to Multiply by 2 Digit Numbers Savvas pp. 149-152	Students will use place value and partial products to calculate products of 1 digit by 2 digit multiplication problems.	4.NBT.5 4.OA.3
Supplemental 4-6	Use Partial Products Savvas Intervention Activity	Students use grid paper and colored pencils to model partial products.	4.NBT.5 4.OA.3

Additional Resources**4.NBT.5 and 4.OA.3**

Standards Addressed	Lesson	Lesson Description
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.5 and 4.OA.3**

Type	Location	Assessment Description	Standards Addressed
Formative	MCS Mini	Students use the distributive property to solve a given multiplication problem.	4.NBT.5
Formative	MIP Module 5 pp. 107-108	Students determine the number of girls on soccer teams.	4.NBT.5
Summative	Savvas Topic Assessment TE pp. 161-162	Students use a variety of strategies to solve multi-digit multiplication problems. Digital and print form available through Savvas platform.	4.NBT.5 4.OA.3
Summative	Savvas Topic Performance Task TE pp. 163-164	Students use a real-life scenario involving an exercise activity log.	4.NBT.5 4.OA.3