



Marietta City Schools District Topic Planner

Fifth Grade

Topic Title	<i>Topic 3: Fluently Multiply Multi-Digit Whole Numbers</i>	Unit duration	<i>15 days</i>
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Big Idea: Numbers Base Ten - Multiplying Whole Numbers

[Georgia Standards of Excellence](#)

- **5.NBT.1** Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and $\frac{1}{10}$ of what it represents in the place to its left.
- **5.NBT.2** Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.
- **5.NBT.5** Fluently multiply multi-digit whole numbers using the standard algorithm (or other strategies demonstrating understanding of multiplication) up to a 3 digit by 2 digit factor.

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

Informational Links

[GSE Unit 1 Frameworks: Order of Operations & Whole Numbers](#)

[MCS Math Instructional Framework](#)

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

About the Math

[GaDOE:Grade 5 Standards Overview Document](#)

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

Topic 3: Learning Resources

5.NBT.1, 5.NBT.2, 5.NBT.5			
Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 3-1	Multiply Greater Numbers by Powers of 10 Savvas: pp. 81-84	Students use place-value understandings and patterns to mentally multiply whole numbers and powers of 10.	5.NBT.1 5.NBT.2 5.NBT.5
Supplemental 3-1	Multiplying by Powers of Ten MIP Module 1 pp.30-31	Students work together to understand the patterns in the placement of the decimal point when a number is multiplied by a power of ten to determine the rule.	5.NBT.1 5.NBT.2
Savvas 3-2	Estimate Products Savvas: pp. 85-88	Students will use rounding and compatible numbers to estimate products.	5.NBT.1 5.NBT.2 5.NBT.5
Supplemental 3-2	Estimate Products Savvas Intervention Activity p.88A	Students will use index cards and markers to round to the nearest ten and estimate products.	5.NBT.1 5.NBT.2 5.NBT.5
Savvas 3-3	Multiply by 1-Digit Numbers Savvas: pp. 89-92	Students use place value and the standard algorithm to multiply multi-digit numbers by 1-digit numbers.	5.NBT.5
Supplemental 3-3	Bridging to the Standard Algorithm MIP Module 3 pp.74-75	Students begin to connect strategies they know to the standard algorithm.	5.NBT.5
Savvas 3-4	Multiply 2-Digit by 2-Digit Numbers Savvas: pp. 93-96	Students use expanded and standard algorithm to multiply 2-digit by 2-digit numbers. Estimate to check if products are reasonable.	5.NBT.5
Savvas 3-5	Multiply 3-Digit by 2-Digit Numbers Savvas: pp. 97-100	Students will multiply 3-digit by 2-digit numbers by adding partial products or by using the standard algorithm.	5.NBT.5
Supplemental 3-4/3-5	Standard Algorithm w/ a 2-Digit Multiplier MIP Module 3 pp.76-81	Students explore the standard algorithm with a 2-digit multiplier.	5.NBT.5

Savvas 3-6	Multiply Whole Numbers with Zeros Savvas: pp. 101-104	Students use knowledge about place value and multiplying with 2-digit and 3-digit numbers to multiply with zeros.	5.NBT.1 5.NBT.2 5.NBT.5
Supplemental 3-6	Multiplying with Zeros MIP Module 3 pp.81-83	As students become comfortable with the standard algorithm, begin to pose problems with zeros.	5.NBT.1 5.NBT.2 5.NBT.5
Savvas 3-7	Practice Multiplying Multi-Digit Numbers Savvas: pp. 105-108	Students use properties and the standard algorithm for multiplication to find the product of multi-digit numbers.	5.NBT.1 5.NBT.2 5.NBT.5
Savvas 3-8	Solve Word Problems Using Multiplication Savvas: pp. 109-112	Students use models and strategies to solve word problems.	5.NBT.1 5.NBT.2 5.NBT.5
Supplemental 3-7/3-8	Connecting to Real World Problems MIP Module 3 pp.72-74	Students review multiplication strategies by solving real-world problems.	5.NBT.1 5.NBT.2 5.NBT.5

Additional Resources

5.NBT.1, 5.NBT.2, 5.NBT.5

Standards Addressed	Lesson	Lesson Description
5.NBT.1 5.NBT.2	GA DOE Constructing Task: Patterns R Us	Apply understanding of Powers of Ten and observe patterns.
5.NBT.5	GA DOE Practice Task: Multiplication Three in a Row	In this task, students practice multiplying 2-digit by 2 or 3-digit numbers in a game format.

Assessment Resources

5.NBT.1, 5.NBT.2, 5.NBT.5

Type	Location	Assessment Description	Standards Addressed
Formative	MCS Mini	Students write numbers 10 times larger than a given number.	5.NBT.1
Formative	MCS Mini	Students use powers of ten to solve problems.	5.NBT.2
Formative	MCS Mini	Students will multiply multi-digit numbers.	5.NBT.5

Formative	MIP Module 3 pp. 79-81	Students will analyze student work to identify mistakes in the multiplication algorithm.	5.NBT.5
Summative	Savvas Topic Assessment TE pp. 121-122	Students will estimate and find products of multidigit numbers. Digital or print forms are available through Savvas platform. Use MDIS to support student needs through data.	5.NBT.1 5.NBT.2 5.NBT.5
Summative	Savvas Topic Performance Task TE pp. 123-124	Students will use a real-life scenario involving the cost of baseball uniforms to multiply multi-digit numbers.	5.NBT.1 5.NBT.2 5.NBT.5