



Marietta City Schools District Topic Planner

Third Grade

Topic Title	<i>Topic 3: Apply Properties: Multiplication Facts for 3, 4, 6, 7, 8</i>	Unit duration	<i>9 days</i>
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Big Idea: Operations and Algebra - Properties of Multiplication

[Georgia Standards of Excellence](#)

■ **3.OA.5** Apply properties of operations as strategies to multiply and divide.¹³ Examples: If $6 \times 4 = 24$ is known, then $4 \times 6 = 24$ is also known. (Commutative property of multiplication.) $3 \times 5 \times 2$ can be found by $3 \times 5 = 15$, then $15 \times 2 = 30$, or by $5 \times 2 = 10$, then $3 \times 10 = 30$. (Associative property of multiplication.) Knowing that $8 \times 5 = 40$ and $8 \times 2 = 16$, one can find 8×7 as $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$. (Distributive property.)

Students need not use formal terms for these properties.

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

Informational Links

[GSE Unit 2 Frameworks: The Relationship Between Multiplication and Division](#)

[MCS Math Instructional Framework](#)

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

About the Math

[GaDOE: Grade 3 Standards Overview Document](#)

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

Topic 3: Learning Resources

3.OA.5

Lesson Number/Task/Module	Lesson	Lesson Description	Standards Addressed
Savvas 3-1	The Distributive Property Savvas pp. 77-80	Students use the Distributive Property to solve problems involving multiplication within 100.	3.OA.5
Supplemental 3-1	Investigating the Distributive Property with Square Tiles MIP Module 2 pp.52-55	Students use square tiles to build area models for multiplication equations and then separate their models to discover the distributive property.	3.OA.5
Savvas 3-2	Apply Properties: 3 and 4 as Factors Savvas pp. 81-82	Students use the Distributive Property to break apart unknown facts with 3 or 4 as a factor.	3.OA.5
Supplemental 3-2	Multiplying Threes with Connecting Cubes Mastering Basic Math Facts Multiplication/Division pp.96	Students will explore x3 facts using snap cubes to create multiplication chains.	3.OA.5
Savvas 3-3	Apply Properties: 6 and 7 as Factors Savvas pp. 85-88	Students use the Distributive Property to break apart unknown facts with 6 or 7 as a factor.	3.OA.5
Supplemental 3-3	<i>Snowflake Bentley</i> Mastering Basic Math Facts Multiplication/Division pp.117-119	Literature Connection. Students will make a real-life connection to snowflakes with 6 branches to explore x6 facts.	3.OA.5
Supplemental 3-3	Eliminate Ten game Mastering Basic Math Facts Multiplication/Division pp.158-159	Students develop an understanding of multiplication with 7 as a factor. through the connection between multiplication and division facts.	3.OA.5
Savvas 3-4	Practice Multiplication Facts Savvas pp. 93-96	Students use strategies such as bar diagrams and arrays with known facts to solve multiplication problems.	3.OA.5

Savvas 3-5	The Associative Property of Multiplication Savvas pp. 97-100	Students use the Associative Property of Multiplication to group factors when multiplying 3 factors.	3.OA.5
Supplemental 3-5	Garden Path Math Task	Students use strategies to solve multiplication problems.	3.OA.5
Savvas 3-6	The Associative Property of Multiplication Savvas pp. 97-100	Students use the Associative Property of Multiplication to group factors when multiplying 3 factors.	3.OA.5
Supplemental 3-6	Exploring the Associative Property MIP Module 2 p. 50	Students investigate, model, and discuss multiplication with three or more factors to better understand the associative property.	3.OA.5

Additional Resources

3.OA.5

Standards Addressed	Lesson	Lesson Description
3.OA.5	Making the Hard Facts Easy GaDOE Constructing Task	Students will practice using the distributive property using graph paper and facts they know.

Assessment Resources

3.OA.5

Type	Location	Assessment Description	Standards Addressed
Formative	MCS Mini	Students will solve multiple choice problems using properties to solve.	3.OA.5
Formative	MIP Module 2 p. 57	Students explain how to use the distributive property to solve x7 facts.	3.OA.5
Summative	Savvas Topic Assessment TE pp. 109-110	Students will demonstrate how to use known multiplication facts to solve unknown facts. Digital or print form available through Savvas platform. Use MDIS to support student needs through data.	3.OA.5
Summative	Savvas Topic Performance Task TE pp. 111-112	Students will use a real-life scenario involving a bake sale to apply properties for solving unknown facts.	3.OA.5