



Grade 5

ALGEBRAIC REASONING

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Whole Class Lessons and Guided Math Groups
Active Engagement and Games
Intervention and Enrichment
Exit Tickets



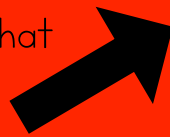
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I SEE YOU~

- struggling each week to write lesson plans that meet the rigor of the TEKS.
- searching endlessly for resources that will help kids learn math while being challenged and engaged.
- staying late everyday after school working on plans and creating everything from scratch.

You are exhausted from working with students all day, and still have to prep, write and create.

I SEE YOU~

SACRIFICING your time with your family and friends

to ensure success for ALL of OUR Children.



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Name _____

Unit 2 Algebraic Reasoning

LT	Statement	1	2	3	4	Evidence
1	I can identify prime and composite numbers.					
2	I can describe the meaning of parentheses and brackets in a numeric expression.					
3	I can represent multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.					
4	I can solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.					
5	I can simplify numerical expressions that do not involve exponents, including up to two levels of grouping.					

1	2	3	4
I have no idea how to do this.	I can do this with some help.	I can do this by myself	I can teach someone to do this.

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
1 5.4A	Identify prime and composite numbers.	<input type="checkbox"/> Identify special numbers: 2,1,0 <input type="checkbox"/> Generalizations from arrays used to determine if a number is prime or composite <input type="checkbox"/> Organizational factor lists and factor pairs	<input type="checkbox"/> Understand that a composite number is a whole number with more than two factors <input type="checkbox"/> Understand that a prime number is a whole number greater than 1 with exactly two factors, 1 and the number itself <input type="checkbox"/> Identify an explanation of why a number is prime or composite	<input type="checkbox"/> Introduce prime factorization.
2 5.4E	Describe the meaning of parentheses and brackets in a numeric expression.	Describe <input type="checkbox"/> Expression <input type="checkbox"/> Grouping symbols <input type="checkbox"/> Generalization about grouping symbols within a numerical expression <input type="checkbox"/> Indicators of multiplication <input type="checkbox"/> Relationship between numbers and operators separated by parentheses and/or brackets	<input type="checkbox"/> Explain the meaning of the parentheses related to order of operations <input type="checkbox"/> Understand the order of operations <input type="checkbox"/> Understand that parentheses are a grouping symbol that indicate the part of the expression that should be simplified first	<input type="checkbox"/> Generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization.

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
3 5.4B	Represent multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.	Representations of an unknown quantity in an equation <ul style="list-style-type: none"> <input type="checkbox"/> Equation - a mathematical statement composed of algebraic and/or numeric expressions set equal to each other <input type="checkbox"/> Any single letter to represent the unknown quantity (e.g., $24 - 8 = y$, etc.) <input type="checkbox"/> Equal sign at beginning or end and unknown in any position <input type="checkbox"/> Recognition of addition, subtraction, multiplication, and/or division in mathematical and real-world problem situations <input type="checkbox"/> Representation of problem situations with equations and/or diagrams 	<ul style="list-style-type: none"> <input type="checkbox"/> Represent a two-step problem situation involving all operations using an equation with a letter standing for the unknown quantity <input type="checkbox"/> Understand the relationship between known values, operations, and an unknown value in a real-world problem situation <input type="checkbox"/> Understand how to solve an equation representing a multi-step problem with a letter standing for the unknown quantity <input type="checkbox"/> Understand that parentheses are a grouping symbol that indicate the part of the expression that should be simplified first 	<ul style="list-style-type: none"> <input type="checkbox"/> Model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts.
4 5.4B	Solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.	<ul style="list-style-type: none"> <input type="checkbox"/> Determine value of an unknown in an equation and/or diagram <input type="checkbox"/> Addition and subtraction problem structures <input type="checkbox"/> Multiplicative structures <input type="checkbox"/> Division structures <input type="checkbox"/> Multi-step problem situations 		

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
5 5.4F	Simplify numerical expressions that do not involve exponents, including up to two levels of grouping.	<p>Grouping symbols - symbols to show a group of terms and/or expressions within a mathematical expression</p> <ul style="list-style-type: none"> <input type="checkbox"/> Parentheses () <input type="checkbox"/> Brackets [] <input type="checkbox"/> Up to two levels of grouping <input type="checkbox"/> Grouping symbols within grouping symbols <input type="checkbox"/> Two sets of grouping symbols <p>Order of operations - the rules of which calculations are performed first when simplifying an expression</p> <ul style="list-style-type: none"> <input type="checkbox"/> Parentheses/brackets: simplify expressions inside parentheses or brackets in order from left to right <input type="checkbox"/> Multiplication/division: simplify expressions involving multiplication and/or division in order from left to right <input type="checkbox"/> Various indicators of multiplication include \times, \cdot, or grouping symbols without a multiplication symbol. <input type="checkbox"/> Addition/subtraction: simplify expressions involving addition and/or subtraction in order from left to right 	<ul style="list-style-type: none"> <input type="checkbox"/> Understand the order of operations <input type="checkbox"/> Understand that parentheses are grouping symbols that indicate the part of the expression that should be simplified first <input type="checkbox"/> Understand that parentheses without an operation symbol indicate multiplication; $a(b)$ means a multiplied by b <input type="checkbox"/> Represent a problem situation involving all operations using an expression <input type="checkbox"/> Simplify an expression using order of operations <input type="checkbox"/> Understand that when an expression contains a set of grouping symbols within another set of grouping symbols, the innermost set of grouping symbols should be simplified first 	<ul style="list-style-type: none"> <input type="checkbox"/> Simplify numerical expressions that may include a division bar instead of the division symbol.

Day 1	Day 2	Day 3	Day 4	Day 5
Concept Attainment LT 1 Prime and composite	Mini Lesson LT 1 Prime and composite	Independent Practice LT 1 Prime and Composite	Mini Lesson LT 2 Grouping Symbols	Mini Lesson LT 5 Order of Operations
Guided Math	Guided Math	Guided Math	Guided Math	Guided Math
Reteach Unit 1	LT 1	LT 1	LT 2	LT 2, 5
Day 6	Day 7	Day 8	Day 9	Day 10
Independent Practice LT 2, 5	Mini Lesson LT 3 Represent: Strip Diagrams	Mini Lesson LT 3 Represent: Equations	Mini Lesson LT 3 Represent: Equations	Mini Lesson LT 4 Solve Equations
Guided Math	Guided Math	Guided Math	Guided Math	Guided Math
LT 2, 5	LT 2, 5, 3	LT 3 + and - Problem Structures	LT 3 x Problem Structures	LT 4, 5 ÷ Problem Structures
Day 11	Day 12	<h1>Unit 2</h1> <h2>Algebraic Reasoning</h2>		
Game LT 4 Solve Equations	Independent Practice LT 3, 4 Represent and Solve			
Guided Math	Guided Math			
LT 4, 5 Problem Structures	LT 4, 5			



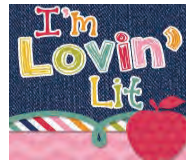
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I hope this helps your students!



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