


























































Grade 6 Math Module 4 Equations and Expressions	Common Core Standards Addressed	Online Instructional Resources <i>Please note: More resources will be added as they become available.</i>	
		LearnZillion Links	Compass Activity
TOPIC A			1. To assign to students, search under <i>My District</i> in assignment archive. Assignment name: Grade 6 Math Module 4 2. To present activity whole group, enter assignment code below.
Lesson 1 The relationship of addition and subtraction	6.EE.A.3 (a.k.a 6.EE.3)		Low Level:  - 20143 Math Rules
Lesson 2 The relationship of multiplication and division	6.EE.A.3		 - OA022 Properties of Multiplication  - AQOA022 Activity Quiz: Properties of Multiplication  - OA023 Properties of Division  - AQOA023 Activity Quiz: Properties of Division
Lesson 3 The relationship of multiplication and addition	6.EE.A.3	http://learnzillion.com/lessons/1393-solve-multiplication-problems-using-repeated-addition	 - 34157 The Property of N.E.R.D.  - 40872 A Splashing Good Time Advanced:  - 40942 Top Secret
Lesson 4 The relationship of division and subtraction	6.EE.A.3	http://learnzillion.com/lessons/1478-solve-division-problems-by-subtracting-equal-groups	
TOPIC B			
Lesson 5 Exponents	6.EE.A.1, 6.EE.A.2c	http://learnzillion.com/lessons/460-write-numerical-expressions-involving-wholenumber-exponents	 - 56281 The Great Growth  - MA5236 Activity Quiz: The Great Growth  - 56183 The Box Stop  - MA5232 Activity Quiz: The Box Stop Reteaching:  - M7004 Reteach: Exponents  - M7005 Let Me Practice: Exponents  - M7006 Activity Quiz 2: Exponents
Lesson 6 The Order of Operations	6.EE.A.1; 6.EE.A.2c	http://learnzillion.com/lessons/463-evaluate-a-numerical-expression-using-order-of-operations http://learnzillion.com/lessons/3087-write-and-interpret-realworld-expressions	 - 67124 Order Up  - MA6221 Solving Equations Using Order of Operations  - MA6222 Activity Quiz: Solving Equations Using Order of Operations  - OWM6222 Odyssey Writer: Order of Operations (OW: writing assignment – feedback provided by teacher only);

TOPIC C			
Lesson 7 Replacing letters with numbers	6.EE.A.2c; 6.EE.A.4	<p>For perimeter and area formulas: http://learnzillion.com/lessons/470-write-and-evaluate-algebraic-expressions-using-formulas (NB: skip 2:40 – 3:20 because it shows the formula for speed)</p> <p>For volume formula: http://learnzillion.com/lessons/141-find-the-volume-of-a-cube</p>	 - MA5521 Using Variables  - MA5522 Activity Quiz: Using Variables  - M7103 Guided Inst./Prac.: Expressions  - M7104 Activity Quiz: Expressions
Lesson 8: Fluency Sprint:	Division of fractions	http://learnzillion.com/lessons/1251-divide-a-fraction-by-a-fraction	
Lesson 8 Replacing numbers with letters Note: See above for help with division of fractions	6.EE.A.2c; 6.EE.A.4	<p>Example one: http://learnzillion.com/lessons/648-write-equivalent-expressions-using-the-additive-identity-property-of-zero-and-the-multiplicative-identity-property-of-one</p> <p>Example two: http://learnzillion.com/lessons/648-write-equivalent-expressions-using-the-additive-identity-property-of-zero-and-the-multiplicative-identity-property-of-one</p>	
TOPIC D			
Lesson 9 Writing addition and subtraction expressions	6.EE.A.2a;	<p>http://learnzillion.com/lessons/465-read-and-write-an-algebraic-expression-containing-a-variable</p> <p>http://learnzillion.com/lessons/2335-create-equivalent-expressions-using-diagrams</p> <p>http://learnzillion.com/lessons/467-read-and-write-algebraic-expressions-using-parentheses</p> <p>In context: http://learnzillion.com/lessons/138-write-word-problems-as-algebraic-expressions</p> <p>http://learnzillion.com/lessons/3087-write-and-interpret-realworld-expressions</p>	 - MA8231 Algebraic Expressions  - MA8232 Activity Quiz: Algebraic Expressions
Lesson 10 Writing and expanding multiplication expressions	6.EE.A.2a; 6.EE.A.2 b; 6.EE.A.3; 6.EE.A.4	http://learnzillion.com/lessons/466-use-alternative-notation-for-multiplication-and-division-in-algebraic-expressions	
Lesson 11 Fluency Sprint - GCF		<p>http://learnzillion.com/lessons/2821-find-the-greatest-common-factor-of-two-numbers</p> <p>http://learnzillion.com/lessons/2796-find-the-gcf-and-lcm-using-prime-</p>	















Grade: 6

		factorization http://learnzillion.com/lessons/2499-find-gcf-by-listing-factor-pairs	
Lesson 11 Factoring Expressions NB: See Fluency Sprint above	6.EE.A.2a;6.EE.A.2 b; 6.EE.A.3; 6.EE.A.4	http://learnzillion.com/lessons/2359-factor-expressions-by-grouping-diagrams	<div>  - 56282 Now That's a Great Factor  - MA5228 Activity Quiz: Now That's a Great Factor  - 40886 Stamp of Approval  - MA6481 Factors and GCF  - MA6462 Activity Quiz: Factors and GCF  - OWMMA6462 Odyssey Writer: Factors and GCF </div> (OW: writing assignment – feedback provided by teacher only);
Lesson 12 Distributing expressions	6.EE.A.2a;6.EE.A.2 b; 6.EE.A.3; 6.EE.A.4	http://learnzillion.com/lessons/3410-regroup-algebraic-expressions-by-applying-the-distributive-property http://learnzillion.com/lessons/649-write-equivalent-expressions-using-the-distributive-property-of-multiplication-over-addition	<div>  - 67122 By the Rules  - MA6243 Distributive Property  - MA6244 Activity Quiz: Distributive Property </div>
Lesson 13 Writing division expressions	6.EE.A.2a;6.EE.A.2 b; 6.EE.A.3; 6.EE.A.4	http://learnzillion.com/lessons/466-use-alternative-notation-for-multiplication-and-division-in-algebraic-expressions	
Lesson 14 Writing division expressions	6.EE.A.2a;6.EE.A.2 b; 6.EE.A.3; 6.EE.A.4		
TOPIC E			
Lesson 15 Read expressions in which letters stand for numbers	6.EE.A.2b	http://learnzillion.com/lessons/465-read-and-write-an-algebraic-expression-containing-a-variable	<div>  - 56315 A Delicious Dish </div>
Lesson 16 Write expressions in which letters stand for numbers	6.EE.A.2b		
Lesson 17 Write expressions in which letters stand for numbers	6.EE.A.2b		
Mid Module Assessment			
TOPIC F			
Lesson 18 Writing and evaluating expressions – addition and subtraction	6.EE.A.2; 6.EE.2c; 6.EE.B.5	http://learnzillion.com/lessons/465-read-and-write-an-algebraic-expression-containing-a-variable	<div>  - 67205 Simply Banking  - MA6233 Evaluating Expressions  - MA6234 Activity Quiz: Evaluating Expressions </div>















Grade: 6

Lesson 19 Substituting to evaluate addition and subtraction expressions	6.EE.A.2; 6.EE.2c; 6.EE.B.5	http://learnzillion.com/lessons/468-evaluate-onestep-algebraic-expressions-by-substitution	 - M7121 Guided Inst./Prac.: Substitution  - M7122 Activity Quiz: Substitution
Lesson 20 Writing and evaluating expressions – multiplication and division	6.EE.A.2; 6.EE.2c; 6.EE.B.5		 - M8099 Guided Inst./Prac.: Expressions, Equations, and Inequalities  - M8100 Activity Quiz: Expressions, Equations, and Inequalities
Lesson 21 Writing and evaluating expressions – multiplication and addition	6.EE.A.2; 6.EE.2c; 6.EE.B.5		 - M8099 Guided Inst./Prac.: Expressions, Equations, and Inequalities  - M8100 Activity Quiz: Expressions, Equations, and Inequalities
Lesson 22 Writing and evaluating expressions – exponents	6.EE.A.2; 6.EE.2c; 6.EE.B.5	http://learnzillion.com/lessons/141-find-the-volume-of-a-cube	 - M8099 Guided Inst./Prac.: Expressions, Equations, and Inequalities  - M8100 Activity Quiz: Expressions, Equations, and Inequalities
TOPIC G			
Lesson 23 True and false number sentences	6.EE.B.5; 6.EE.B.6; 6.EE.B.7		
Lesson 24 True and false number sentences	6.EE.B.5; 6.EE.B.6; 6.EE.B.7		
Lesson 25 Finding solutions to make equations true	6.EE.B.5; 6.EE.B.6; 6.EE.B.7		Operations practice with fractions:  - MA84171 Add, Subtract, Multiply and Divide Fractions  - MA84172 Activity Quiz: Add, Subtract, Multiply and Divide Fractions
Lesson 26 One-step equations – addition and subtraction	6.EE.B.5; 6.EE.B.6; 6.EE.B.7	http://learnzillion.com/lessons/2735-write-and-solve-addition-equations-using-a-bar-model http://learnzillion.com/lessons/2882-write-and-solve-subtraction-equations-using-a-bar-model http://learnzillion.com/lessons/167-write-addition-and-subtraction-problems-as-algebraic-expressions	 - MA5525 Solving Equations with Addition  - MA5526 Activity Quiz: Solving Equations with Addition  - OWMA5526 Odyssey Writer: Solving Equations with Addition (OW: writing assignment – feedback provided by teacher only);  - MA5527 Solving Equations with Subtraction  - MA5528 Activity Quiz: Solving Equations with Subtraction  - 58318 Scrumptious Cakes  - MA8261 Add and Subtract  - MA8262 Activity Quiz: Add and Subtract  - 78280 Solve Using Add/Subtract

Grade: 6

Lesson 27 One-step equations – multiplication and division	6.EE.B.5; 6.EE.B.6; 6.EE.B.7	http://learnzillion.com/lessons/2814-write-and-solve-multiplication-equations-using-a-bar-model http://learnzillion.com/lessons/2815-write-and-solve-division-equations-using-a-bar-model http://learnzillion.com/lessons/168-solve-multiplication-and-division-problems-using-1step-equations	 - MA5529 Solving Equations with Multiplication  - MA55210 Activity Quiz: Solving Equations with Multiplication  - MA55211 Solving Equations with Division  - MA55212 Activity Quiz: Solving Equations with Division  - 56317 Apple-licious  - MA6263 Multiply and Divide  - MA6264 Activity Quiz: Multiply and Divide
Lesson 28 Two step-problems – all operations	6.EE.B.5; 6.EE.B.6; 6.EE.B.7		 - MA61091 Simplify Expressions and Write an Equation  - MA61092 Activity Quiz: Simplify Expressions and Write an Equation  - M7107 Show Me: Expressions and Equations  - M7108 Let Me Try: Expressions and Equations  - M7109 Activity Quiz 1: Expressions and Equations
Lesson 29 Multi-step problems – all operations	6.EE.B.5; 6.EE.B.6; 6.EE.B.7		
TOPIC H			
Lesson 30 One – step problems in the real world	6.EE.B.5; 6.EE.B.6; 6.EE.B.7 ; 6.EE.B.8; 6.EE.C.9	Review of angles: http://learnzillion.com/lessons/3917-identify-angles-by-comparing-them-to-square-angles http://learnzillion.com/lessons/3402-find-unknown-angles-using-diagrams	Practice with decimals:  - MA6381 Add, Subtract, Multiply and Divide Decimals  - MA6382 Activity Quiz: Add, Subtract, Multiply and Divide Decimals
Lesson 31 Problems in mathematical terms	6.EE.B.5; 6.EE.B.6; 6.EE.B.7 ; 6.EE.B.8; 6.EE.C.9	http://learnzillion.com/lessons/3484-identify-independent-and-dependent-variables http://learnzillion.com/lessons/3565-relate-independent-and-dependent-variables-using-a-function-table http://learnzillion.com/lessons/1659-create-equivalent-algebraic-representations-table-graph-equation-word-problem	
Lesson 32 Multi-step problems in the real world	6.EE.B.5; 6.EE.B.6; 6.EE.B.7 ; 6.EE.B.8; 6.EE.C.9	http://learnzillion.com/lessons/1659-create-equivalent-algebraic-representations-table-graph-equation-word-problem http://learnzillion.com/lessons/1657-convert-real-world-situations-into-equations-using-models	

Grade: 6

Lesson 33 From equations to inequalities	6.EE.B.5; 6.EE.B.6; 6.EE.B.7; 6.EE.B.8; 6.EE.C.9		<div>  - M8195 Show Me: Linear Inequalities </div> <div>  - M8196 Let Me Try: Linear Inequalities </div> <div>  - M8197 Activity Quiz 1: Linear Inequalities </div> <div>  - M8198 Reteach: Linear Inequalities </div> <div>  - M8199 Let Me Practice: Linear Inequalities </div> <div>  - M8200 Activity Quiz 2: Linear Inequalities </div>
Lesson 34 Writing and graphing inequalities in real-world problems	6.EE.B.5; 6.EE.B.6; 6.EE.B.7; 6.EE.B.8; 6.EE.C.9	http://learnzillion.com/lessons/2775-graph-an-inequality http://learnzillion.com/lessons/1506-represent-the-solution-set-of-an-equality-using-a-number-line http://learnzillion.com/lessons/1507-write-inequalities-given-a-number-line-representation http://learnzillion.com/lessons/1508-represent-realworld-scenarios-involving-inequalities-with-number-line-representations http://learnzillion.com/lessons/2614-write-and-graph-inequalities-shopping http://learnzillion.com/lessons/2615-write-and-graph-inequalities-temperature	<div>  - M7239 Show Me: Graph Linear Equations </div> <div>  - M7240 Let Me Try: Graph Linear Equations </div> <div>  - M7241 Activity Quiz 1: Graph Linear Equations </div> <div>  - M7242 Reteach: Graph Linear Equations </div> <div>  - M7243 Let Me Practice: Graph Linear Equations </div> <div>  - M7244 Activity Quiz 2: Graph Linear Equations </div> <div>  - 76263 Graph Equations I </div> <div>  - 76265 Graph Equations II </div>
End of Module Assessment	Topics A through H		