

Grade 6 Online Learning Resources

**The following resources are from IXL/mathgames.com. Accounts are not required to access up to 10 free questions each day. Students can take a screenshot to verify progress if desired. Teacher should model activity before students begin. Student reflection after activity is recommended.

Unit ¹	Essential Standards
1	<u>The Number System</u> 6.NS.1 (Multiply and divide fractions) • <u>Multiply two fractions using models</u> • <u>Multiply two fractions using models: fill in the missing factor</u> • <u>Multiply two fractions</u> • <u>Divide unit fractions and whole numbers using models</u> • <u>Divide two fractions</u> 6.NS.2 (Divide multi-digit numbers) • <u>Divide by 2 digit numbers using models</u> • <u>Divide by 2 digit numbers using partial quotients</u> • <u>Divide whole numbers - 2 digit divisor</u> • <u>Divide whole numbers - 3 digit divisor</u> • <u>Divide 4 digit numbers by 2 digit numbers: word problems</u> 6.NS.3 (Add, subtract, multiply, divide multi-digit decimals) • <u>Add and subtract decimal numbers</u> • <u>Multiply decimals</u> • <u>Division with decimal quotients</u> • <u>Add, subtract, multiply, divide two decimals</u> • <u>Add, subtract, multiply, divide two decimals: word problems</u> 6.NS.5 (Using positive and negative numbers in context) • <u>Understanding integers</u> • <u>Understanding opposite integers</u>

¹ Unit numbers correspond to the Common Core State Standards Math appendix A scope and sequence.

	• <u>Understanding absolute value</u> • <u>Put integers in order</u> • <u>Absolute value and integers: story problems</u> 6.NS.8 (Solving real world problems by graphing, finding horizontal and vertical distance) • <u>Objects on a coordinate plane</u> • <u>Graph points on a coordinate plane</u> • <u>Distance between two points</u> • <u>Follow directions in a coordinate plane</u> • <u>Distance between two points in a coordinate plane</u>
2	<u>Ratios and Proportional Relationships</u> 6.RP.1 (Using ratio language) • <u>Write a ratio</u> • <u>Write a ratio using a fraction</u> • <u>Write a ratio: word problems</u> • <u>Identify equivalent ratios</u> • <u>Equivalent ratios: word problems</u> 6.RP.2 (Finding unit rates) • <u>Finding unit rates</u> • <u>Compare rates: word problems</u> • <u>Equivalent rates</u> • <u>Calculate unit rates with fractions</u> • <u>Word problems involving ratios</u> 6.RP.3 (Using ratios in context) • <u>Write a ratio: word problems</u> • <u>Equivalent ratios: word problems</u>

	• <u>Ratios and rates: tables and graphs</u> • <u>Compare ratios: word problems</u> • <u>Ratios and rates: word problems</u>
3	<u>Expressions and Equations – Algebraic Expressions</u> 6.EE.1 (Evaluating whole number exponents) • <u>Understanding exponents</u> • <u>Write multiplication expressions using exponents</u> • <u>Evaluate exponents</u> 6.EE.2 (Read, write and evaluate algebraic expressions) • <u>Write variable expressions: one operation</u> • <u>Write variable expressions: two operations</u> • <u>Write variable expressions: two or three operations</u> • <u>Evaluate variable expressions with whole numbers</u> • <u>Does x satisfy the equation?</u> • <u>Which x satisfies an equation?</u> • <u>Does x satisfy an equation?</u> 6.EE.3 (Creating equivalent algebraic expressions) • <u>Write equivalent expressions using properties</u> • <u>Add and subtract like terms</u> • <u>Factor using the distributive property</u> • <u>Multiply using the distributive property</u> 6.EE.4 (Identify equivalent expressions) • <u>Identify equivalent expressions using algebra tiles</u> • <u>Identify equivalent expressions using strip models</u> • <u>Identify equivalent linear expressions I</u>

	• <u>Identify equivalent linear expressions II</u> • <u>Add and subtract linear expressions</u>
4	<u>Expressions and Equations – One Variables</u> <u>Equations and Inequalities</u> 6.EE.5 (Using substitution to solve equations and inequalities) • <u>Does x satisfy an equation?</u> • <u>Which x satisfies an equation?</u> 6.EE.6 (Use variables and expressions in real-world context) • <u>Write an equation from words</u> • <u>Write and solve equations that represent diagrams</u> • <u>Which word problem matches the one-step equation?</u> 6.EE.7 (Solve 1-step equations) • <u>Model and Solve equations using algebra tiles</u> • <u>Write and solve equations that represent diagrams</u> • <u>Solve 1-step equations with whole numbers</u> 6.EE.8 (Write inequalities in real-world context and graph solutions) • <u>Graph inequalities on number lines</u> • <u>Solutions to inequalities</u> • <u>Write inequalities from number lines</u> • <u>Write and graph inequalities</u> • <u>One-step inequalities: word problems</u>

	6.EE.9 (Write two variable equations in real-world context) • <u>Write an equation from a graph using a table</u> • <u>Write a two-variable equation from a table</u> • <u>Write a two-variable equation</u>
5	<u>Geometry and Statistics</u> 6.G.1 (Find area of polygons composed of right triangles, triangles, and special quadrilaterals) • <u>Area of rectangles and squares</u> • <u>Area of parallelograms</u> • <u>Understanding area of a triangle</u> • <u>Area of triangles</u> • <u>Area of trapezoid</u> • <u>Area of a rhombus</u> • <u>Area of compound figures</u> 6.G.2 (Find the volume of right rectangular prisms) • <u>Volume of cubes and rectangular prisms</u> • <u>Volume of cubes and rectangular prisms with fractional side lengths</u> • <u>Volume of cubes and rectangular prisms: word problems</u> 6.SP.4 (Display numerical data in plots) • <u>Create line plots</u> • <u>Create bar graphs</u>

	• <u>Create histograms</u> • <u>Box Plots</u>
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