



Presented by the Dyscalculia Training & Research Institute

8th Grade
Pre-Algebra
Pacing Guide

Use this pacing guide to help you keep track of your work.

<u>Unit</u>	<u>Topic</u>	<u>Completed</u>
Unit 1	<u>Week 1, Four Operations with Decimals & Fractions</u> Operations with Decimals Addition and Subtraction with Fractions Multiply Fractions Divide Fractions	
	<u>Week 2, Simplify Fractions</u> Simplest Form Simplify Fractions with a Multiplication List Simplify Before Multiplying Unit 1, Week 2 Test	
	<u>Week 3, Classifying Numbers</u> Classify Numbers Rational and Irrational Numbers Rational and Irrational Roots Unit 1, Week 3 Test	
	<u>Week 4, Exponents</u> Bases and Exponents Exponents and Expanded Form The Value of Exponents The Zero Power	
	<u>Week 5, Roots</u> Square Roots Cube Roots Approximate Roots Negative Exponents Unit 1, Week 5 Test	
	<u>Week 6, Laws of Exponents</u> Adding and Subtracting Bases Multiply Bases, Add Exponents Divide Bases, Subtract Exponents Power to a Power	
	<u>Week 7, Scientific Notation</u> Scientific Notation Scientific Notation with Large Numbers Adding and Subtracting with Scientific Notation Multiplying and Dividing with Scientific Notation	
	<u>Week 8, Opposites and Absolute Value</u> Opposite Numbers Solve Opposite Numbers Problems Absolute Value Solve Absolute Value Problems Unit 1, Week 8 Test	

Unit 2	<u>Week 1, Expressions</u> Identify Expressions Parts of an Expression Key Words in Word Problems Write Expressions from Word Problems	
	<u>Week 2, Proportions</u> Write Ratios Identify Proportions Solve Proportions Miles per Hour Other Conversions Unit 2, Week 2 Test	
	<u>Week 3, Working with Expressions and Terms</u> Finding Slope from a Graph Combine Like Terms Distributive Property with Numbers Distributive Property with Variables	
	<u>Week 4, Linear Equations</u> Slope-Intercept Form Writing a Linear Equation Identify the Slope and y-intercept Standard Form to Slope-Intercept Form Unit 2, Week 4 Test	
	<u>Week 5, Graph a Linear Equation</u> Identify Slope and y-intercept from a Graph Graph the y-intercept and Follow the Slope Match a Graph to an Equation Write in Slope-Intercept Form and Graph	
	<u>Week 6, Solving a System</u> Solutions to a System of Equations Graph a System of Equations Solve a System of Equations by Graphing Solve a System of Equations by Elimination	
Unit 3	<u>Week 1, Integers</u> Integers Add Integers Subtract Integers Multiply Integers Divide Integers	
	<u>Week 2, Interest</u> Simple Interest Formula Finding the Interest Rate Finding the Time	
	<u>Week 3, Functions</u> Functions Identify Functions from a Set of Numbers Identify Functions from a Graph (Vertical Line Test) Identify Functions from Ordered Pairs Unit 3, Week 3 Test	
Unit 4	<u>Week 1, Polygons</u> Polygons Naming Polygons Interior Angles of a Triangles Complementary Angles Supplementary Angles	

	Unit 4, Week 1 Test	
	<u>Week 2: Circles</u> Parts of a Circle Diameter and Radius Area of a Circle Circumference of a Circle Unit 4, Week 2 Test	
	<u>Week 3: Rotations and Reflections</u> Graph a Reflection Graph a 90-Degree Rotation Graph a 180-Degree Rotation Graph a 270-Degree Rotation	
	<u>Week 4: Dilations</u> Dilations Graph a Dilation Scale Factor Identify the Scale Factor	
	<u>Week 5: Coordinate Plane</u> Coordinate Plane Ordered Pairs Quadrants and Points Table of Values Graph a Table of Values Unit 4, Week 5 Test	
Unit 5	<u>Week 1: Perimeter and Area</u> Perimeter Word Problems Area of a Square, Rectangle, or Parallelogram Area of a Triangle Area of a Trapezoid	
	<u>Week 2: Volume of Cubes and Rectangular Prisms</u> Volume of a Cube Find a Missing Side Volume of a Rectangular Prism Find a Missing Side Unit 5, Week 2 Test	
	<u>Week 3: Volume of Cylinders and Spheres</u> Volume of Cylinders Volume of a Sphere Volume Word Problems	
	<u>Week 4: Volume of Pyramids and Cones</u> Volume of a Pyramid Volume of a Cone Find a Missing Side Unit 5, Week 4 Test	
	<u>Week 5: Surface Area</u> Surface Area of a Cube Surface Area of a Rectangular Prism Surface Area Word Problems Find a Missing Side	
	<u>Week 6: Pythagorean Theorem</u> Pythagorean Theorem Solving for the Hypotenuse Solving for a Leg Pythagorean Theorem in Word Problems	

Unit 6	<u>Week 1: Probability</u> Probability with Cards or Dice Probability with Spinners and Word Problems Fundamental Counting Principle Unit 6, Week 1 Test	
	<u>Week 2: Measures of Central Tendencies</u> Range Mode Median Mean	
	<u>Week 3: Gathering Data</u> Statistical Questions Populations and Samples Bias Unit 6, Week 3 Test	
	<u>Week 4: Displaying Data</u> Line Plots Histograms Scatter Plots and Correlations	
	<u>Week 5: Box Plots and Circle Graphs</u> Create a Circle Graph Read a Circle Graph Create a Box Plot Read a Box Plot Unit 6, Week 5 Test	