



## NEISD Math Year at a Glance 2025 - 2026 8th Grade Math

Fall Semester									
Unit Title	<b>Unit 1</b> Using Real Numbers	<b>Unit 2</b> Equations & Inequalities	Unit 3 Proportional & Non-Proportional Functions	<b>Unit 4</b> Bivariate Data	Unit 5 Pythagorean Theorem & Angle Relationships				
Time	3 weeks	4 weeks	6 weeks	2 weeks	3 weeks				
Understandings	Numbers are related to each other  There are various ways to represent equivalent values  Mathematical symbols impact the value of a number	Solutions are values that make the equation true.  There are various ways to represent linear relationships.  Mathematical symbols are used to show the relationship between two expressions  Inequality symbols are used between two expressions to represent situations where one side is greater than the other.	Linear relationships are represented in different ways  An equation describes the relationship between input and output values  There are distinguishing features between proportional and nonproportional situations and their representations.  A function describes a situation where one quantity determines another.	Graphical representations are used to determine the association between two variables.  An association between two variables can be used to make a prediction  There are distinguishing features between proportional and nonproportional situations and their representations.	Right triangles have unique characteristics that lead to a special relationship between the sides of the triangle.  The Pythagorean Theorem can be used to solve problems about distance.  The geometric relationships between angles and figures can be deduced from a set of examples.				
TEKS	8.2A, B, C, <b>D</b>	8.8 <b>A</b> , B, <b>C</b> 8.9A	8.4 <b>B</b> , <b>C</b> 8.5A, B, E, F, G, H, I	8.5C, <b>D</b> 8.11A, B, C	8.6 C 8.7 <b>C</b> , D 8.8 D				

C&I/Department Working Copy Last Revised 10/13/2025





## NEISD Math Year at a Glance 2025 - 2026 8th Grade Math

Spring Semester									
Unit Title	Unit 6 Transformations	Unit 7 Volume & Surface Area	<b>Unit 8</b> Personal Financial Literacy	<b>Unit 9</b> STAAR Review	Unit 10 Algebra I Acceleration				
Time	5 weeks	5 weeks	2 weeks	2 weeks	4 weeks				
Understandings	A scale factor applied to a figure does not preserve congruence but it does create a similar figure.  An algebraic representation can be used to describe and define a transformation.  The formula to find the slope of a line can be illustrated and understood by finding the ratio of the rise to run in 2 similar triangles.	The volume formulas indicate the relationship between a geometric solid's Base area and its height  The area and perimeter of the base (B and P) are key factors in determining the volume and surface area of prisms and cylinders.  Knowledge about equations can be applied to solving problems with formulas and solving for specific measurements.	There are real world implications when saving for college, calculating the cost of a loan, and investing money over time.  Factors such as interest rate, length of time and principal	Writing and solving equations is useful problem solving strategy for problems about linear relationships, geometry, and interest.  Analyzing graphs includes identifying the variables on x- and y- axis, comparing corresponding coordinates of transformed figures, and determining the value of the y-intercept and slope of a linear graph.  Efficient problem solving includes analyzing the problem, organizing the given information, and determining a solution with or without a calculator.	The rate of change and the y-intercept are key features for representing linear functions  Solutions to a function are represented as x-intercepts on the graph of the function and are known as zeros.  In order to solve equations and inequalities with the distributive property, simplifying is necessary for solving.				
TEKS	8.3A, B, <b>C</b> 8.4A 8.10A, B, <b>C</b> , D	8.6 A, B 8.7 <b>A</b> , <b>B</b>	8.12A, B, C, <b>D</b> , E, F, G	All Tested Standards	A.2 <b>C</b> A.3 <b>B</b> , <b>C</b> A.5 <b>A</b> , B				

C&I/Department Working Copy Last Revised 10/13/2025