

TABLE OF STANDARDS

(PG. 1 OF 2)

The activities in **STAAR Prep & Go! Grade 7** address the following standards.

REPORTING CATEGORY		STANDARDS		PAGE
1	PROBABILITY & NUMERICAL REPRESENTATIONS	The student will demonstrate an understanding of how to represent probabilities and numbers.		
		7.6	Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:	
		7.6H	Solve problems using qualitative and quantitative predictions and comparisons from simple experiments; Readiness Standard	5
		7.6I	Determine experimental and theoretical probabilities related to simple and compound events using data and sample spaces. Readiness Standard	11
2	COMPUTATIONS & ALGEBRAIC RELATIONSHIPS	The student will demonstrate an understanding of how to perform operations and represent algebraic relationships.		
		7.3	Numbers and operations. The student applies mathematical process standards to add, subtract, multiply, and divide while solving problems and justifying solutions. The student is expected to:	
		7.3B	Apply and extend previous understandings of operations to solve problems using addition, subtraction, multiplication, and division of rational numbers. Readiness Standard	17
		7.4	Proportionality. The student applies mathematical process standards to represent and solve problems involving proportional relationships. The student is expected to:	
		7.4A	Represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representation, including $d = rt$; Readiness Standard	23
		7.4D	Solve problems involving ratios, rates, and percents, including multi-step problems involving percent increase and percent decrease, and financial literacy problems. Readiness Standard	31 , 37
		7.7	Expressions, equations, and relationships. The student applies mathematical process standards to represent linear relationships using multiple representations. The student is expected to:	
		7.7A	Represent linear relationships using verbal descriptions, tables, graphs, and equations that simplify to the form $y = mx + b$. Readiness Standard	43
		7.11	Expressions, equations, and relationships. The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:	
		7.11A	Model and solve one-variable, two-step equations and inequalities. Readiness Standard	51

TABLE OF STANDARDS

(PG. 2 OF 2)

REPORTING CATEGORY	STANDARDS		PAGE				
3	GEOMETRY & MEASUREMENT			<p>The student will demonstrate an understanding of how to represent and apply geometry and measurement concepts.</p>			
				7.5	<p>Proportionality. The student applies mathematical process standards to use geometry to describe or solve problems involving proportional relationships. The student is expected to:</p>		
				7.5C	Solve mathematical and real-world problems involving similar shape and scale drawings. Readiness Standard	57	
				7.9	<p>Expressions, equations, and relationships. The student applies mathematical process standards to solve geometric problems. The student is expected to:</p>		
				7.9A	Solve problems involving the volume of rectangular prisms, triangular prisms, rectangular pyramids, and triangular pyramids; Readiness Standard	63	
				7.9B	Determine the circumference and area of circles; Readiness Standard		69
				7.9C	Determine the area of composite figures containing combinations of rectangles, squares, parallelograms, trapezoids, triangles, semicircles, and quarter circles. Readiness Standard		75
4	DATA ANALYSIS & PERSONAL FINANCIAL LITERACY			<p>The student will demonstrate an understanding of how to represent and analyze data and how to describe and apply personal financial concepts.</p>			
				7.6	<p>Proportionality. The student applies mathematical process standards to use probability and statistics to describe or solve problems involving proportional relationships. The student is expected to:</p>		
				7.6G	Solve problems using data represented in bar graphs, dot plots, and circle graphs, including part-to-whole and part-to-part comparisons and equivalents. Readiness Standard	81	
				7.12	<p>Measurement and data. The student applies mathematical process standards to use statistical representations to analyze data. The student is expected to:</p>		
				7.12A	Compare two groups of numeric data using comparative dot plots or box plots by comparing their shapes, centers, and spreads. Readiness Standard		87