

Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
Math-Statistics and Graphs, Ratio, Proportion and Functions	6	3rd	29
TEKS/Student Expectations		Examples/Specifications:	
<p>6.1) Number, operation, and quantitative reasoning. The student represents and uses rational numbers in a variety of equivalent forms. The student is expected to:</p> <p>B) generate equivalent forms of rational numbers including whole numbers, fractions, and decimals use integers to represent real-life situations;</p> <p>(6.2) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve problems and justify solutions. The student is expected to:</p> <p style="padding-left: 40px;">(C) use multiplication and division of whole numbers to solve problems including situations involving equivalent ratios and rates;</p> <p>(6.3) Patterns, relationships, and algebraic thinking. The student solves problems involving direct proportional relationships. The student is expected to:</p> <p style="padding-left: 40px;">(A) use ratios to describe proportional situations;</p> <p style="padding-left: 40px;">(B) represent ratios and percents with concrete models, fractions, and decimals; and</p> <p>6.4) Patterns, relationships, and algebraic thinking. The student uses letters as variables in mathematical expressions to describe how one quantity changes when a related quantity changes. The student is expected to:</p> <p style="padding-left: 40px;">(A) use tables and symbols to represent and describe proportional and other relationships such as those involving conversions, arithmetic sequences (with a constant rate of change), perimeter and area; and</p> <p>(6.5) Patterns, relationships, and algebraic thinking. The student uses letters to represent an unknown in an equation.</p> <p>The student is expected to formulate equations from problem situations described by linear relationships</p>			

<p>6.10) Probability and statistics. The student uses statistical representations to analyze data. The student is expected to:</p> <ul style="list-style-type: none"> (A) select and use an appropriate representation for presenting and displaying different graphical representations of the same data including line plot, line graph, bar graph, and stem and leaf plot; (B) identify mean (using concrete objects and pictorial models), median, mode, and range of a set of data; (C) sketch circle graphs to display data; and (D) solve problems by collecting, organizing, displaying, and interpreting data. <p>(6.11) Underlying processes and mathematical tools. The student applies Grade 6 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school. The student is expected to:</p> <ul style="list-style-type: none"> (C) select or develop an appropriate problem-solving strategy from a variety of different types, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and <p>(6.12) Underlying processes and mathematical tools. The student communicates about Grade 6 mathematics through informal and mathematical language, representations, and models. The student is expected to:</p> <ul style="list-style-type: none"> (A) communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models; and 	<p>Line graph, bar graph 2-2 Stem & leaf plot 2-4</p> <p>Mean 2-6 Mean, median, mode, rang 2-7</p> <p>Display and interpret 2-2</p> <p>Make a table 2-1</p>
<p>Language of Instruction:</p>	<p>Instructional Resources/Textbook Correlations:</p>

<p>Bar graph Line graph Stem and Leaf Plot Line Plot Mean Median Mode Range Equations Average Frequency Graph Horizontal axis Integers Key Leaves Negative number Opposites Outlier Positive numbers Stems Vertical Axis</p>	<p>Glencoe Mathematics Chapter 2 Chapter 6</p>
	<p>Weblinks/Other Resources:</p>
	<p>Practice worksheets Study Guide and intervention worksheets Graph paper (large) Survey, collect data/graph project Mean, median, mode card game Foldables Marilyn Burns Tangrams United Streaming</p>
<p>Evaluation/External Assessment/Local Assessment:</p>	<p>Best Instruction Timeline:</p>
<p>Graph project Chapter quizzes Chapter tests</p>	<p>Chapter 2—15 days Chapter 6—14 days</p>