



## Statistics Scope & Sequence

Grading Period	Focus TEKS (R) Readiness (S) Supporting	Unit Title	Learning Targets
<b>Throughout the School Year</b>	<ul style="list-style-type: none"> <li>*Apply mathematics to problems in everyday life</li> <li>*Use a problem-solving model that incorporates analyzing information, formulating a plan, determining a solution, justifying the solution and evaluating the reasonableness of the solution</li> <li>*Select tools to solve problems</li> <li>*Communicate mathematical ideas, reasoning and their implications using multiple representations</li> <li>*Create and use representations to organize, record and communicate mathematical ideas</li> <li>*Analyze mathematical relationships to connect and communicate mathematical ideas</li> <li>*Display, explain and justify mathematical ideas and arguments</li> </ul>		
<b>First Grading Period</b>	Exploring Categorical Data	Graphing Categorical Data  Using technology to simulate athletic performance.	Misleading Graphs
	Comparing Proportions	Testing a Difference in Proportions  Using technology for simulations	Experiment: Is it harder to shoot free throws with distractions?
	Investigating Independence	Testing the Hot Hand/Streakiness  Testing number of Streaks	Type I and Type II Errors

<b>Second Grading Period</b>	Exploring Numerical Data	Displaying Numerical Data with Graphs  Describing Numerical Data with Summary Statistics	Using the TI-84 to Make Graphs and Calculate Summary Statistics
	Comparing Two Means or Two Medians	Testing a Difference in Means  Testing a Difference in Medians	Experiment: Heating a Football?  Using an applet to simulate a difference in Means
<b>Third Grading Period</b>	Exploring Measures of Availability	Measuring Consistency: Mean Absolute Deviation & Standard Deviation	Using technology to calculate the standard deviation
	Standardized Scores and the Normal Distribution	Standardized Scores 68-95-99.7 Rule The Normal Distribution The Normal Distribution in reverse	
	Exploring Relationships between Numerical variables	Displaying Relationships with Scatterplots	Measuring Strength with correlation
<b>Fourth Grading Period</b>	Using Relationships to make predictions	Least-Squares Regression Line	Standard Deviation of the Residuals  Influential Points
	Nonlinear Relationships	Residual Plots Quadratic Models Exponential Models	Choosing a Model

	Exploring Counting Rules and Probability	Fundamental Counting Principle Permutations Combinations	Random Sampling Binomial Distribution