

Cocalico School District
Year-at-a-Glance - Curriculum Overview

Department: Math

Course: Statistics (140)

Grade Level: 11-12

Big Ideas

- Analyze data to make inferences about the population.
- Calculate the probability of an event occurring given sample data.
- Estimate population parameters for one and two sample confidence intervals.
- Test claims about one and two sample tests.
- Calculate the correlation of coefficient and regression equation for a linear function.

Units of Study	% of Course Time	Textbooks & Supplemental Materials	Assessments	Standards Addressed
<ul style="list-style-type: none"> • Vocabulary 	6%	<ul style="list-style-type: none"> • <i>Elementary Statistics</i> Textbook • Supplementary Videos 	<ul style="list-style-type: none"> • Test • Survey Project 	<ul style="list-style-type: none"> • 2.5.11B • 2.5.11C • 2.5.11D • 2.6.22E
<ul style="list-style-type: none"> • Descriptive Statistics 	15%	<ul style="list-style-type: none"> • <i>Elementary Statistics</i> Textbook • Graphing Calculator, • Supplementary Videos 	<ul style="list-style-type: none"> • Quiz • Test • Analyzing Survey Project 	<ul style="list-style-type: none"> • 2.5.11.C • 2.6.11A
<ul style="list-style-type: none"> • Probability 	12%	<ul style="list-style-type: none"> • <i>Elementary Statistics</i> Textbook • Graphing Calculator • Supplementary Videos 	<ul style="list-style-type: none"> • Quiz • Test • Penny Lab 	<ul style="list-style-type: none"> • 2.7.11A • 2.7.11B • 2.7.11C • 2.7.11D • 2.7.11E
<ul style="list-style-type: none"> • Probability Distributions 	22%	<ul style="list-style-type: none"> • <i>Elementary Statistics</i> Textbook • Graphing Calculator, • Supplementary Videos 	<ul style="list-style-type: none"> • Tests • Penny Lab Continued • M&M Lab 	<ul style="list-style-type: none"> • 2.6.11I • 2.7.11D
<ul style="list-style-type: none"> • Confidence Intervals 	18%	<ul style="list-style-type: none"> • <i>Elementary Statistics</i> Textbook • Graphing Calculator, • Supplementary Videos 	<ul style="list-style-type: none"> • Test • Bean Lab • Survey Analysis Project 	<ul style="list-style-type: none"> • 2.6.11D • 2.6.11H
<ul style="list-style-type: none"> • Hypothesis Testing 	21%	<ul style="list-style-type: none"> • <i>Elementary Statistics</i> Textbook • Graphing Calculator • Supplementary Videos 	<ul style="list-style-type: none"> • Quiz • Test • Skittles Lab • Bean Lab 	<ul style="list-style-type: none"> • 2.6.11H • 2.6.11I
<ul style="list-style-type: none"> • Regression Equations 	6%	<ul style="list-style-type: none"> • <i>Elementary Statistics</i> Textbook • Graphing Calculator, • Supplementary Videos 	<ul style="list-style-type: none"> • Test 	<ul style="list-style-type: none"> • 2.6.11C



Eagle P.A.C.T. Course Connections:

The purpose of this course is to have students think critically about data. Students will learn how to calculate statistical values and interpret their meaning. They will also learn to question whether or not the statistics are accurately represented in research and news articles.