

# Statistics Year at a Glance

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## 1<sup>st</sup> Six Weeks

### **Chapter A Review of Algebra II**

- A.1 Solving Linear Equations, Equations with Formulas, and Applications
- A.4 Slope, Graphing, and Systems of Equations
- A.6 Quadratics and Factoring

### **Chapter 0 Review of Basic Probability**

- 0.1 Simple Probability
- 0.2 Theoretical vs. Experimental Probability
- 0.3 Analyzing Data

## 2<sup>nd</sup> Six Weeks

### **Chapter 1 Introduction to Statistics**

- 1.1. An Overview of Statistics
- 1.2. Data Classification
- 1.3. Data Collection and Experimental Design

### **Chapter 2 Descriptive Statistics**

- 2.1. Frequency Distributions and Their Graphs
- 2.2. More Graphs and Displays
- 2.3. Measures of Central Tendency
- 2.4. Measures of Variation
- 2.5. Measures of Position

## 3<sup>rd</sup> Six Weeks

### **Chapter 3 Probability**

- 3.1. Basic Concepts of Probability and Counting
- 3.2. Conditional Probability and the Multiplication Rule
- 3.3. The Addition Rule
- 3.4. Additional Topics in Probability and Counting

### **Chapter 4 Discrete Probability Distributions**

- 4.1. Probability Distributions
- 4.2. Binomial Distributions
- 4.3. More Discrete Probability Distributions

### **Chapter 5 Normal Probability Distributions**

- 5.1. Introduction to Normal Distributions and the Standard Normal Distribution
- 5.2. Normal Distributions: Finding Probabilities
- 5.3. Normal Distributions: Finding Values
- 5.4. Sampling Distributions and the Central Limit Theorem
- 5.5. Normal Approximations to Binomial Distributions

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## 4<sup>th</sup> Six Weeks

### **Chapter 6 Confidence Intervals**

- 6.1. Confidence Intervals for the
- 6.2. Confidence Intervals for the Mean
- 6.3. Confidence Intervals for Population Proportions
- 6.4. Confidence Intervals for Variance and Standard Deviation

### **Chapter 7 Hypothesis Testing with One Sample**

- 7.1. Introduction to Hypothesis Testing
- 7.2. Hypothesis Testing for the Mean
- 7.3. Hypothesis Testing for the Mean
- 7.4. Hypothesis Testing for Proportions
- 7.5. Hypothesis Testing for Variance and Standard Deviation

## 5<sup>th</sup> Six Weeks

### **Chapter 8 Hypothesis Testing with Two Samples**

- 8.1. Testing the Difference Between Means
- 8.2. Testing the Difference Between Means
- 8.3. Testing the Difference Between Means (Dependent Samples)
- 8.4. Testing the Difference Between Proportions

### **Chapter 9 Correlation and Regression**

- 9.1 Correlation
- 9.2. Linear Regression
- 9.3. Measures of Regression and Prediction Intervals
- 9.4. Multiple Regression

## 6<sup>th</sup> Six Weeks

### **Chapter 10 Chi-Square Tests and the F-Distribution**

- 10.1. Goodness-of-Fit Test
- 10.2. Independence
- 10.3. Comparing Two Variances
- 10.4. Analysis of Variance

### **Chapter 11 Nonparametric Tests**

- 11.1. The Sign Test
- 11.2. The Wilcoxon Tests
- 11.3. The Kruskal-Wallis Test
- 11.4. Rank Correlation