

Please Note:

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Publisher Resource:

[Statistics Through Applications](#)

Other Course Supplemental Resources:

Khan Academy Core - [Statistics and Probability](#)

- [AP Statistics](#)

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 9	1 8/10 – 8/14	Chapter 1 – Statistics: the Art and Science of Data <ul style="list-style-type: none"> Section 1.1 – Where Do Data Come From Section 1.2 – Drawing Conclusions From Data 	Introduction to Statistics - Perdisco.tv - Introduction to statistics Section 1.2 – Perdisco.tv - Introduction to statistics
	2 8/17 – 8/21	Chapter 2 – Describing Distributions of Data <ul style="list-style-type: none"> Section 2.1 – Displaying Distributions with Graphs Assessment Section 2.2 – Describing Distributions with Numbers 	Section 2.1– Perdisco.tv - Presenting data Khan Academy – Bar Graphs Line Graphs Pie Graphs Stem-And-Leaf Plots (stemplots)
	3 8/24 – 8/28	<ul style="list-style-type: none"> Section 2.2 – Describing Distributions with Numbers Section 2.3 – Use and Misuse of Statistics 	Section 2.2 – Khan Academy - Displaying and describing data Khan Academy – Box and Whisker Plots (boxplots) Reading Box and Whisker Plots Mean, Median, and Mode Range and Midrange Statistics: The Average Statistics: Sample Mean vs Population Mean Statistics: Standard Deviation Section 2.3 – Khan Academy – Reading Pictographs Misleading Line Graphs
	4 8/31 – 9/4	<ul style="list-style-type: none"> Review Assessment Chapter 3 – Modeling Distributions of Data <ul style="list-style-type: none"> 3.1 – Measuring location in a Distribution 	Section 3.1 – Khan Academy - Normal distribution
	5 9/7 – 9/11	<ul style="list-style-type: none"> Labor Day Holiday – 9/7 Measuring location in a Distribution 3.2 – Normal Distributions 	Section 3.2 – Khan Academy - Normal distribution Khan Academy – Introduction to the Normal Distribution Normal Distribution Excel Exercise

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			Normal Distribution Problems: Qualitative sense of normal distributions Normal Distribution Problems: Empirical Rule Exercise: Standard Normal Distribution and the Empirical Rule More Empirical Rule and Z-score practice
6 9/14 – 9/18	<ul style="list-style-type: none"> 3.2 – Normal Distributions Assessment 	<ul style="list-style-type: none"> Section 3.2 – Khan Academy - Normal distribution Khan Academy – Introduction to the Normal Distribution Normal Distribution Excel Exercise Normal Distribution Problems: Qualitative sense of normal distributions Normal Distribution Problems: Empirical Rule Exercise: Standard Normal Distribution and the Empirical Rule More Empirical Rule and Z-score practice 	
7 9/21 – 9/25	<p>Chapter 4 – Describing Relationships</p> <ul style="list-style-type: none"> 4.1 Scatterplots and Correlation 	<ul style="list-style-type: none"> Section 4.1 – Khan Academy - Describing relationships in quantitative data Khan Academy – Correlation and Causality 	
8 9/28 – 10/2	<ul style="list-style-type: none"> Assessment 4.2 Regression and Prediction 	<ul style="list-style-type: none"> Section 4.2 – Khan Academy - Describing relationships in quantitative data Khan Academy – Regression Line Example Second Regression Example Calculating R-Squared R-Squared or Coefficient of Determination 	
9 10/5 – 10/9	<ul style="list-style-type: none"> 4.2 Regression and Prediction Review Assessment 		

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Quarter 2 Oct 12 – Dec 18	1 10/12 – 10/16	<ul style="list-style-type: none"> Teacher Planning Day 10/12 PSAT 10/14 <p>Chapter 5 – Sampling and Surveys</p> <ul style="list-style-type: none"> Section 5.1 – Samples, Good and Bad 	Khan Academy – Margin of Error 1 Margin of Error 2 Section 5.1 – Khan Academy - Samples and surveys
	2 10/19 – 10/23	<ul style="list-style-type: none"> Section 5.2 – What Do Samples Tell Us? Section 5.3 – Sample Surveys in the Real World 	Section 5.2 – Khan Academy - Samples and surveys Section 5.3 – Khan Academy - Samples and surveys
	3 10/26 – 10/30	<ul style="list-style-type: none"> Section 5.3 – Sample Surveys in the Real World Review Assessment 	Section 5.3 – Khan Academy - Samples and surveys
	4 11/2 – 11/6	<p>Chapter 6 – Designing Experiments</p> <ul style="list-style-type: none"> Section 6.1 – Experiments, Good and Bad 	Section 6.1 – YouTube - Introduction to Experimental Design
	5 11/9 – 11/13	<ul style="list-style-type: none"> Veterans Day 11/11 Section 6.2 – Experiments in the Real World 	Section 6.2 – YouTube - Introduction to Experimental Design
	6 11/16 – 11/20	<ul style="list-style-type: none"> Section 6.3 – Data Ethics Review Assessment 	Section 6.3 – YouTube - Experiments and Ethics
	7 11/23 – 11/24	<ul style="list-style-type: none"> Remediation 	
	8 11/30 – 12/4	<p>Chapter 7 – Probability: What are the Chances?</p> <ul style="list-style-type: none"> Section 7.1 – Randomness, Probability, and Simulations 	
	9 12/7 – 12/11	<ul style="list-style-type: none"> Remediation and Semester Review 	
	10 12/14 – 12/18	<ul style="list-style-type: none"> Midterm Exams 	

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Quarter 3 Jan 5 – Mar 11	1 1/5– 1/8	Chapter 7 – Probability: What are the Chances? <ul style="list-style-type: none"> Section 7.1 – Randomness, Probability, and Simulations 	Section 7.1 – Khan Academy - Intro to theoretical probability
	2 1/11 – 1/15	Chapter 7 – Probability: What are the Chances? <ul style="list-style-type: none"> Section 7.2 – Probability Rules 	Section 7.2 – Khan Academy - Multiplication rule for independent events
	3 1/18 – 1/22	<ul style="list-style-type: none"> Martin Luther King Jr. Holiday 1/18 Assessment Section 7.3 – Conditional Probability and Independence 	Section 7.3 – Khan Academy - Multiplication rule for dependent events
	4 1/25 – 1/29	<ul style="list-style-type: none"> Section 7.3 – Conditional Probability and Independence Review Assessment 	
	5 2/1 – 2/5	Chapter 8 – Probability Models <ul style="list-style-type: none"> Section 8.1 - Probability Distributions 	Section 8.1 – Khan Academy - Random variables
	6 2/8 – 2/12	<ul style="list-style-type: none"> Section 8.2 – Counting and Probability 	Section 8.2 - Khan Academy - Probability with counting outcomes
	7 2/15 – 2/19	<ul style="list-style-type: none"> Presidents Day Holiday 2/15 Section 8.3 – Binomial Distributions Review Assessment 	Section 8.3 – Khan Academy - Binomial random variables
	8 2/22 – 2/26	<ul style="list-style-type: none"> Assessment Chapter 9/10 (Confidence Intervals) <ul style="list-style-type: none"> Section 9.1 – What is a Confidence Interval? 	Section 9.1 – Khan Academy - Confidence interval
	9 3/1 – 3/5	<ul style="list-style-type: none"> Section 9.1 – What is a Confidence Interval? Section 10.2 – Inference about a Population Mean 	Section 10.2 – Khan Academy - Significance tests (one sample)
	10 3/8 – 3/11	<ul style="list-style-type: none"> Section 10.2 – Inference about a Population Mean Review Assessment 	

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Quarter 4 Mar 15 – May 25	1 3/15 – 3/19	<ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL 	
	2 3/22 – 3/26	Chapter 9/10 (Significance Test) <ul style="list-style-type: none"> • Section 9.2 – What is a Significance Test? 	Section 9.2 – Khan Academy - Significance tests (one sample)
	3 3/29 – 4/2	<ul style="list-style-type: none"> • Section 9.2 – What is a significance Test? • Section 10.2 – Inference about a Population Mean • Holiday 4/2 	Section 10.2 – Khan Academy - Significance tests (one sample)
	4 4/5 – 4/9	<ul style="list-style-type: none"> • Section 10.2 – Inference about a Population Mean • Section 9.3 – Use and Abuse of Statistical Inference 	Section 9.3 – JB Statistics - Statistical Significance vs Practical Significance
	5 4/12 – 4/16	<ul style="list-style-type: none"> • Section 9.3 – Use and Abuse of Statistical Inference • Review • Assessment 	
	6 4/19 – 4/23	Chapter 10 Inference in Practice <ul style="list-style-type: none"> • Section 10.1 – Chi-Square Test: Goodness of Fit and Two-Way Tables 	Section 10.1 – Khan Academy - Inference for categorical data (chi-square tests)
	7 4/26 – 4/30	<ul style="list-style-type: none"> • Section 10.1 – Chi-Square Test: Goodness of Fit and Two-Way Tables 	
	8 5/3 – 5/7	<ul style="list-style-type: none"> • Review • Assessment 	
	9 5/10 – 5/14	<ul style="list-style-type: none"> • Remediation • Course Review 	
	10 5/17 – 5/21	<ul style="list-style-type: none"> • Course Review • Final Exams 	
	11 5/24 – 5/25	<ul style="list-style-type: none"> • Final Exams 	

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