

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 12 – Oct 11	1 8/12-8/16	Chapter 1 – Statistics: the Art and Science of Data <ul style="list-style-type: none"> Section 1.1 – Where Do Data Come From 	Introduction to Statistics - Perdisco.tv - Introduction to statistics
	2 8/19 – 8/23	<ul style="list-style-type: none"> Section 1.1 – Where Do Data Come From Section 1.2 – Drawing Conclusions From Data Chapter 2 – Describing Distributions of Data <ul style="list-style-type: none"> Section 2.1 – Displaying Distributions with Graphs 	Section 1.2 – Perdisco.tv - Introduction to statistics Section 2.1– Perdisco.tv - Presenting data Khan Academy – Bar Graphs Line Graphs Pie Graphs Stem-And-Leaf Plots (stemplots)
	3 8/26 – 8/30	<ul style="list-style-type: none"> Section 2.1 – Displaying Distributions with Graphs Assessment Section 2.2 – Describing Distributions with Numbers 	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
	4 9/2 – 8/31	<ul style="list-style-type: none"> Section 2.2 – Describing Distributions with Numbers Section 2.3 – Use and Misuse of Statistics Review Assessment 	Section 2.3 – Khan Academy – Reading Pictographs Misleading Line Graphs
	5 9/3 – 9/6	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
	6 9/9 – 9/13	<ul style="list-style-type: none"> 3.1 – 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 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 9/16 – 9/20	<ul style="list-style-type: none"> 3.2 – Normal Distributions Assessments 	

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Probability & Statistics with Applications Honors

2019-2020

<p>8 9/23 – 9/27</p>	<p>Chapter 4 – Describing Relationships</p> <ul style="list-style-type: none"> 4.1 Scatterplots and Correlation 	<p>Section 4.1 – Khan Academy - Describing relationships in quantitative data Khan Academy – Correlation and Causality</p>
<p>9 9/30 – 10/4</p>	<ul style="list-style-type: none"> Assessment 4.2 Regression and Prediction 	<p>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</p>
<p>10 10/7 – 10/11</p>	<ul style="list-style-type: none"> 4.2 Regression and Prediction Review Assessment 	

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Quarter 2 Oct 15 – Dec 20	1 10/15 – 10/18	Chapter 5 – Sampling and Surveys <ul style="list-style-type: none"> Section 5.1 – Samples, Good and Bad 	Khan Academy – Margin of Error 1 Khan Academy – Margin of Error 2 Section 5.1 – Khan Academy - Samples and surveys
	2 10/21 – 10/25	<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 10/28 – 11/1	<ul style="list-style-type: none"> Section 5.3 – Sample Surveys in the Real World Review Assessment 	
	4 11/4 – 11/8	Chapter 6 – Designing Experiments <ul style="list-style-type: none"> Section 6.1 – Experiments, Good and Bad 	Section 6.1 – YouTube - Introduction to Experimental Design
	5 11/12 – 11/15	<ul style="list-style-type: none"> Section 6.2 – Experiments in the Real World Section 6.3 – Data Ethics 	Section 6.2 – YouTube - Introduction to Experimental Design Section 6.3 – YouTube - Experiments and Ethics
	6 11/18 – 11/22	<ul style="list-style-type: none"> Review Assessment 	
	7 11/25 – 11/26	<ul style="list-style-type: none"> Standards Review 	
	8 12/2 – 12/6	<ul style="list-style-type: none"> Standards Review 	
	9 12/9 – 12/13	<ul style="list-style-type: none"> Standards Review 	
	10 12/16 – 12/20	<ul style="list-style-type: none"> District Exams 	

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Quarter 3 Jan 6 – Mar 12	1 1/6– 1/10	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 1/13 – 1/17	Chapter 7 – Probability: What are the Chances? <ul style="list-style-type: none"> Section 7.1 – Randomness, Probability, and Simulations Section 7.2 – Probability Rules 	Section 7.2 – Khan Academy - Multiplication rule for independent events
	3 1/20 – 1/24	<ul style="list-style-type: none"> Assessment Section 7.3 – Conditional Probability and Independence 	Section 7.3 – Khan Academy - Multiplication rule for dependent events
	4 1/27 – 1/31	<ul style="list-style-type: none"> Section 7.3 – Conditional Probability and Independence Review Assessment 	
	5 2/3 – 2/7	Chapter 8 – Probability Models <ul style="list-style-type: none"> Section 8.1 - Probability Distributions 	Section 8.1 – Khan Academy - Random variables
	6 2/10 – 2/14	<ul style="list-style-type: none"> Section 8.2 – Counting and Probability 	Section 8.2 - Khan Academy - Probability with counting outcomes
	7 2/17 – 2/21	<ul style="list-style-type: none"> Section 8.3 – Binomial Distributions Review Assessment 	Section 8.3 – Khan Academy - Binomial random variables
	8 2/24 – 2/28	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 3/2 – 3/6	<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 3/9 – 3/13	<ul style="list-style-type: none"> Section 10.2 – Inference about a Population Mean Review Assessment 	

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Quarter 4 Mar 23 – May 28	1 3/16 – 3/20	<ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL 	
	2 3/23 – 3/27	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 3/30 – 4/3	<ul style="list-style-type: none"> • Section 9.2 – What is a significance Test? • Section 10.2 – Inference about a Population Mean 	Section 10.2 – Khan Academy - Significance tests (one sample)
	4 4/6 – 4/10	<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 4/13 – 4/17	<ul style="list-style-type: none"> • Section 9.3 – Use and Abuse of Statistical Inference • Review • Assessment 	
	6 4/20 – 4/24	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 4/27 – 5/1	<ul style="list-style-type: none"> • Section 10.1 – Chi-Square Test: Goodness of Fit and Two-Way Tables • Review • Assessments 	
	8 5/4 – 5/8	<ul style="list-style-type: none"> • Course Standards Review 	
	9 5/11 – 5/20	<ul style="list-style-type: none"> • Course Standards Review 	
	10 5/21 – 5/28	<ul style="list-style-type: none"> • Final Exams 	

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