

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 16 – Oct 15 | 1 8/16 – 8/20 | <ul style="list-style-type: none"> Section 1.1 – Where Do Data Come From Section 1.2 – Drawing Conclusions From Data | Identifying individuals, variables and categorical variables in a data set - Khan Academy Unit: Analyzing categorical data - Khan Academy |
| | 2 8/23 – 8/27 | <ul style="list-style-type: none"> Assessment Section 2.1 – Displaying Distributions with Graphs | Unit: Displaying quantitative data with graphs - Khan Academy Bar graphs - Khan Academy Line graphs - Khan Academy Pie graphs - Khan Academy Stem-and-leaf plots - Khan Academy |
| | 3 8/30 – 9/3 | <ul style="list-style-type: none"> Section 2.2 – Describing Distributions with Numbers Section 2.3 – Use and Misuse of Statistics | Unit: Measuring center in quantitative data - Khan Academy Constructing a box plot - Khan Academy Reading a box plot - Khan Academy Mean, median, mode - Khan Academy Range and mid-range - Khan Academy Inferring population mean from sample mean - Khan Academy Sample standard deviation and bias - Khan Academy Reading pictographs - Khan Academy Misleading line graphs - Khan Academy |
| | 4 9/6 – 9/10 | <ul style="list-style-type: none"> Labor Day Holiday – 9/6 Review Assessment 3.1 – Measuring location in a Distribution | Unit: Modeling data distributions - Khan Academy Introduction to normal distribution - Khan Academy |
| | 5 9/13 – 9/17 | <ul style="list-style-type: none"> Interims Issued – 9/14 3.2 – Normal Distributions | Normal distribution - Khan Academy Normal distribution excel exercise - Khan Academy |

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| | | | Qualitative sense of normal distributions - Khan Academy Empirical rule - Khan Academy |
| | 6 9/20 – 9/24 | <ul style="list-style-type: none"> Review Assessment | |
| | 7 9/27 – 10/1 | <ul style="list-style-type: none"> 4.1 Scatterplots and Correlation | <i>Unit: Exploring bivariate numerical data - Khan Academy</i> Constructing a scatter plot - Khan Academy Calculating correlation coefficient r - Khan Academy Correlation and causality - Khan Academy |
| | 8 10/4 – 10/8 | <ul style="list-style-type: none"> 4.2 Regression and Prediction | Introduction to residuals and least squares regression - Khan Academy Regression line example - Khan Academy Second regression line example - Khan Academy Calculating r-squared - Khan Academy R-squared or coefficient of determination - Khan Academy |
| | 9 10/11 – 10/15 | <ul style="list-style-type: none"> PSAT/NMSQT – 10/13 Review Assessment | |

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| Quarter 2 Oct 18 – Dec 21 | 1 10/18 – 10/22 | <ul style="list-style-type: none"> • Teacher Planning Day – 10/18 • Section 5.1 – Samples, Good and Bad | Unit: Study design - Khan Academy Margin of error 1 - Khan Academy Margin of error 2 - Khan Academy Reasonable samples - Khan Academy |
| | 2 10/25 – 10/29 | <ul style="list-style-type: none"> • Report Cards – 10/26 • Section 5.2 – What Do Samples Tell Us? | Unit: Sampling distributions - Khan Academy |
| | 3 11/1 – 11/5 | <ul style="list-style-type: none"> • Section 5.3 – Sample Surveys in the Real World • Review | |
| | 4 11/8 – 11/12 | <ul style="list-style-type: none"> • Veterans Day 11/11 • Assessment | |
| | 5 11/15 – 11/19 | <ul style="list-style-type: none"> • Interims Issued – 11/16 • Section 6.1 – Experiments, Good and Bad | Introduction to experiment design - Khan Academy Matched pairs experiment design - Khan Academy |
| | 6 11/22 – 11/26 | <ul style="list-style-type: none"> • Thanksgiving Holiday 11/24 – 11/26 • Section 6.2 – Experiments in the Real World | |
| | 7 11/29 – 12/3 | <ul style="list-style-type: none"> • Section 6.3 – Data Ethics | |
| | 8 12/6 – 12/10 | <ul style="list-style-type: none"> • Review • Assessment | |
| | 9 12/13 – 12/17 | <ul style="list-style-type: none"> • Standards Review | |
| | 10 12/20 – 12/24 | <ul style="list-style-type: none"> • Second Quarter/First Semester Ends – 12/21 • Winter Break – 12/22 – 1/4 • Midterm • Standards Review | |

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| Quarter 3 Jan 6 – Mar 10 | 1 1/5 – 1/7 | <ul style="list-style-type: none"> Teacher Planning Day – 1/5 Section 7.1 – Randomness, Probability, and Simulations | <i>Unit: probability - Khan Academy</i> <i>Randomness, probability and simulation - Khan Academy</i> |
| | 2 1/10 – 1/14 | <ul style="list-style-type: none"> Section 7.2 – Probability Rules | <i>Basic set operations - Khan Academy</i> <i>Addition rule - Khan Academy</i> <i>Multiplication rule for independent events - Khan Academy</i> <i>Multiplication rule for dependent events - Khan Academy</i> |
| | 3 1/17 – 1/21 | <ul style="list-style-type: none"> Martin Luther King Jr. Holiday – 1/17 Report Cards – 1/19 Section 7.3 – Conditional Probability and Independence | <i>Conditional probability and independence - Khan Academy</i> |
| | 4 1/24 – 1/28 | <ul style="list-style-type: none"> Review Assessment | |
| | 5 1/31 – 2/4 | <ul style="list-style-type: none"> Section 8.1 - Probability Distributions | <i>Unit: Discrete random variables - Khan Academy</i> <i>Unit: Modeling data distributions - Khan Academy</i> |
| | 6 2/7 – 2/11 | <ul style="list-style-type: none"> Teacher Inservice – 2/7 Interims Issued – 2/8 Section 8.2 – Counting and Probability | <i>Unit: Counting, permutations and combinations - Khan Academy</i> <i>Probability with counting outcomes - Khan Academy</i> |
| | 7 2/14 – 2/18 | <ul style="list-style-type: none"> Section 8.3 – Binomial Distributions | <i>Unit: Random variables - Khan Academy</i> <i>Binomial random variables - Khan Academy</i> |
| | 8 2/21 – 2/25 | <ul style="list-style-type: none"> Presidents Day Holiday – 2/21 Review | |
| | 9 2/28 – 3/4 | <ul style="list-style-type: none"> Assessment Section 9.1 – What is a Confidence Interval? | <i>Unit: Confidence intervals - Khan Academy</i> |

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| | | | Confidence intervals and margin of error - Khan Academy |
| | 10 3/7 – 3/11 | <ul style="list-style-type: none"> Teacher Planning Day – 3/11 Section 10.2 – Inference about a Population Mean | <i>Tests about a population mean - Khan Academy</i> |

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| Quarter 4 Mar 14 – June 2 | 1 3/14 – 3/18 | <ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL | |
| | 2 3/21 – 3/25 | <ul style="list-style-type: none"> • Review | |
| | 3 3/28 – 4/1 | <ul style="list-style-type: none"> • Report Cards – 3/29 • Assessment | |
| | 4 4/4 – 4/8 | <ul style="list-style-type: none"> • Section 9.2 – What is a Significance Test? | <i>Unit: Significance tests - Khan Academy</i> |
| | 5 4/11 – 4/15 | <ul style="list-style-type: none"> • Holiday – 4/15 • Section 10.2 – Inference Using Significance Test | |
| | 6 4/18 – 4/22 | <ul style="list-style-type: none"> • Holiday – 4/18 • Section 9.3 – Use and Abuse of Statistics | |
| | 7 4/25 – 4/29 | <ul style="list-style-type: none"> • Interims Issued – 4/26 • Section 10.1 – Chi-Square | <i>Unit: Inference for categorical data (chi square tests) - Khan Academy</i> |
| | 8 5/2 – 5/6 | <ul style="list-style-type: none"> • Review | |
| | 9 5/9 – 5/13 | <ul style="list-style-type: none"> • Assessment • Standards Review | |
| | 10 5/16 – 5/20 | <ul style="list-style-type: none"> • Standards Review | |
| | 11 5/23 – 5/27 | <ul style="list-style-type: none"> • Standards Review | |
| | 12 5/30 – 6/2 | <ul style="list-style-type: none"> • Memorial Day Holiday – 5/30 • Standards Review | |

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