

Please Note:

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Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

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 12 | 1 8/10 | Chapter 1 – Statistics: the Art and Science of Data <ul style="list-style-type: none"> Section 1.1 – <u>Where Do Data Come From</u> | Section 1.1 – Perdisco.tv - Introduction to statistics |
| | 2 8/13 – 8/17 | <ul style="list-style-type: none"> Section 1.1 – <u>Where Do Data Come From</u> Section 1.2 – <u>Drawing Conclusions From Data</u> Chapter 2 – Describing Distributions of Data <ul style="list-style-type: none"> Section 2.1 – <u>Displaying Distributions with Graphs</u> | 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 8/20 – 8/24 | <ul style="list-style-type: none"> Section 2.1 – <u>Displaying Distributions with Graphs</u> Assessment Section 2.2 – <u>Describing Distributions with Numbers</u> | 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 8/27 – 8/31 | <ul style="list-style-type: none"> Section 2.2 – <u>Describing Distributions with Numbers</u> Section 2.3 – <u>Use and Misuse of Statistics</u> Review Assessment | Section 2.3 – YouTube - Misuse of Statistics Khan Academy – Reading Pictographs Misleading Line Graphs |
| | 5 9/3 – 9/7 | Chapter 3 – Modeling Distributions of Data <ul style="list-style-type: none"> 3.1 – <u>Measuring location in a Distribution</u> | Section 3.1 – Khan Academy - Normal distribution |
| | 6 9/10 – 9/14 | <ul style="list-style-type: none"> 3.1 – <u>Measuring location in a Distribution</u> 3.2 – <u>Normal Distributions</u> | 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 9/17 – 9/21 | <ul style="list-style-type: none"> 3.2 – <u>Normal Distributions</u> Assessments | |

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| | <p>8 9/24 – 9/28</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 10/1 – 10/5</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 10/8 – 10/12</p> | <ul style="list-style-type: none"> 4.2 Regression and Prediction Review Assessment | |

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| Quarter 2 Oct 16 – Dec 21 | 1 10/16 – 10/19 | Chapter 5 – Sampling and Surveys <ul style="list-style-type: none"> Section 5.1 – <u>Samples, Good and Bad</u> | Khan Academy – Margin of Error 1 Margin of Error 2 Section 5.1 – Khan Academy - Samples and surveys |
| | 2 10/22 – 10/26 | <ul style="list-style-type: none"> Section 5.2 – <u>What Do Samples Tell Us?</u> Section 5.3 – <u>Sample Surveys in the Real World</u> | Section 5.2 – Khan Academy - Samples and surveys Section 5.3 – Khan Academy - Samples and surveys |
| | 3 10/29 – 11/2 | <ul style="list-style-type: none"> Section 5.3 – <u>Sample Surveys in the Real World</u> Review Assessment | |
| | 4 11/5 – 11/9 | Chapter 6 – Designing Experiments <ul style="list-style-type: none"> Section 6.1 – <u>Experiments, Good and Bad</u> | Section 6.1 – YouTube - Introduction to Experimental Design |
| | 5 11/12 – 11/16 | <ul style="list-style-type: none"> Section 6.2 – <u>Experiments in the Real World</u> Section 6.3 – <u>Data Ethics</u> | Section 6.2 – YouTube - Introduction to Experimental Design Section 6.3 – YouTube - Experiments and Ethics |
| | 6 11/19 – 11/20 | <ul style="list-style-type: none"> Review Assessment | |
| | 7 11/26 – 11/30 | <ul style="list-style-type: none"> Standards Review | |
| | 8 12/3 – 12/7 | <ul style="list-style-type: none"> Standards Review | |
| | 9 12/10 – 12/14 | <ul style="list-style-type: none"> Standards Review | |
| | 10 12/17 – 12/21 | <ul style="list-style-type: none"> District Exams | |

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| Quarter 3 Jan 7 – Mar 14 | 1 1/7– 1/11 | Chapter 7 – Probability: What are the Chances? <ul style="list-style-type: none"> Section 7.1 – <u>Randomness, Probability, and Simulations</u> | Section 7.1 – Khan Academy - Intro to theoretical probability |
| | 2 1/14 – 1/18 | Chapter 7 – Probability: What are the Chances? <ul style="list-style-type: none"> Section 7.1 – <u>Randomness, Probability, and Simulations</u> Section 7.2 – <u>Probability Rules</u> | Section 7.2 – Khan Academy - Multiplication rule for independent events |
| | 3 1/21 – 1/25 | <ul style="list-style-type: none"> Assessment Section 7.3 – <u>Conditional Probability and Independence</u> | Section 7.3 – Khan Academy - Multiplication rule for dependent events |
| | 4 1/28 – 2/1 | <ul style="list-style-type: none"> Section 7.3 – <u>Conditional Probability and Independence</u> Review Assessment | |
| | 5 2/4 – 2/8 | Chapter 8 – Probability Models <ul style="list-style-type: none"> Section 8.1 - <u>Probability Distributions</u> | Section 8.1 – Khan Academy - Random variables |
| | 6 2/11 – 2/15 | <ul style="list-style-type: none"> Section 8.2 – <u>Counting and Probability</u> | Section 8.2 - Khan Academy - Probability with counting outcomes |
| | 7 2/18 – 2/22 | <ul style="list-style-type: none"> Section 8.3 – <u>Binomial Distributions</u> Review Assessment | Section 8.3 – Khan Academy - Binomial random variables |
| | 8 2/25 – 3/1 | Chapter 9/10 (Confidence Intervals) <ul style="list-style-type: none"> Section 9.1 – <u>What is a Confidence Interval?</u> | Section 9.1 – Khan Academy - Confidence interval |
| | 9 3/4 – 3/8 | <ul style="list-style-type: none"> Section 9.1 – <u>What is a Confidence Interval?</u> Section 10.2 – <u>Inference about a Population Mean</u> | Section 10.2 – Khan Academy - Significance tests (one sample) |
| | 10 3/11 – 3/14 | <ul style="list-style-type: none"> Section 10.2 – <u>Inference about a Population Mean</u> Review Assessment | |

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| Quarter 4 Mar 18 – May 24 | 1 3/18 – 3/22 | <ul style="list-style-type: none"> • SPRING BREAK – NO SCHOOL | |
| | 2 3/25 – 3/29 | Chapter 9/10 (Significance Test) <ul style="list-style-type: none"> • Section 9.2 – <u>What is a Significance Test?</u> | Section 9.2 – Khan Academy - Significance tests (one sample) |
| | 3 4/1 – 4/5 | <ul style="list-style-type: none"> • Section 9.2 – <u>What is a significance Test?</u> • Section 10.2 – <u>Inference about a Population Mean</u> | Section 10.2 – Khan Academy - Significance tests (one sample) |
| | 4 4/8 – 4/12 | <ul style="list-style-type: none"> • Section 10.2 – <u>Inference about a Population Mean</u> • Section 9.3 – <u>Use and Abuse of Statistical Inference</u> | Section 9.3 – JB Statistics - Statistical Significance vs Practical Significance |
| | 5 4/15 – 4/19 | <ul style="list-style-type: none"> • Section 9.3 – <u>Use and Abuse of Statistical Inference</u> • Review • Assessment | |
| | 6 4/22 – 4/26 | Chapter 10 Inference in Practice <ul style="list-style-type: none"> • Section 10.1 – <u>Chi-Square Test: Goodness of Fit and Two-Way Tables</u> | Section 10.1 – Khan Academy - Inference for categorical data (chi-square tests) |
| | 7 4/29 – 5/3 | <ul style="list-style-type: none"> • Section 10.1 – <u>Chi-Square Test: Goodness of Fit and Two-Way Tables</u> • Review • Assessments | |
| | 8 5/6 – 5/10 | <ul style="list-style-type: none"> • Course Standards Review | |
| | 9 5/13 – 5/17 | <ul style="list-style-type: none"> • Course Standards Review | |
| | 10 5/20 – 5/24 | <ul style="list-style-type: none"> • Final Exams | |

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