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Publisher Resource: (access card is needed)

(Starnes, Yates and Moore)

Other Course Supplemental Resources – by standard and Topic:

Study Island (see “AP Statistics” for section topics)
  Login: 55s(student #)
  Password: first initial first name + first initial last name + mmddyyyy of birth
<table>
<thead>
<tr>
<th>Week</th>
<th>Major Concepts / Topics</th>
<th>Possible Resources</th>
</tr>
</thead>
</table>
| 1    | - Chapter 1 – Statistics: The Art and Science of Data  
      - Section 1.1 - Where Do Data Come From? | Section 1.1 – Perdisco.tv |
| 2    | - Assessment  
      - Section 1.2 - Drawing Conclusions From Data | Section 1.2 – Perdisco.tv |
| 3    | - Chapter 2 – Describing Distributions of Data  
      - Section 2.1 - Displaying Distributions with Graphs | Section 2.1– Perdisco.tv  
      Khan Academy –  
      Bar Graphs  
      Line Graphs  
      Pie Graphs  
      Stem-And-Leaf Plots (stemplots) |
| 4    | - Section 2.1 - Displaying Distributions with Graphs  
      - Section 2.2 - Describing Distributions with Numbers | Section 2.2 – Khan Academy  
      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 |
| 5    | - Section 2.2 - Describing Distributions with Numbers  
      - Section 2.3 - Use and Misuse of Statistics | Section 2.3 – YouTube  
      Khan Academy –  
      Reading Pictographs  
      Misleading Line Graphs |
| 6    | - Section 2.3 - Use and Misuse of Statistics | |
| 7    | - Assessment  
      - Chapter 3 – Modeling Distributions of Data  
      - Section 3.1 - Measuring Location in a Distribution | Section 3.1 – Khan Academy  
      Khan Academy –  
      Introduction to the Normal Distribution  
      Normal Distribution Excel Exercise  
      Normal Distribution Problems: Qualitative sense |
| 8    | - Chapter 3 – Modeling Distributions of Data  
      - Section 3.1 - Measuring Location in a Distribution  
      - Section 3.2 - Normal Distributions | |

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| 9 | • Section 3.2 - Normal Distributions  
    • Assessment |
<table>
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<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>• Quarter Assessment</td>
</tr>
</tbody>
</table>

Normal Distribution Problems: Empirical Rule  
Exercise: Standard Normal Distribution and the Empirical Rule  
More Empirical Rule and Z-score practice

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</table>
| 1    | **Chapter 4 – Describing Relationships**  
     | Section 4.1 - Scatterplots and Correlation | Section 4.1 – [Khan Academy](#)  
     | Khan Academy – Correlation and Causality |
|      |                          | Section 4.2 – [Khan Academy](#)  
     | Regression Line Example  
     | Second Regression Example  
     | Calculating R-Squared  
     | R-Squared or Coefficient of Determination |
| 2    | Section 4.1 - Scatterplots and Correlation  
     | Section 4.2 - Regression and Prediction | Khan Academy –  
     | Margin of Error 1  
     | Margin of Error 2  
     | Section 5.1 – [Khan Academy](#) |
| 3    | Section 4.2 - Regression and Prediction  
     | Assessment | Section 5.2 – [Khan Academy](#)  
     | Section 5.3 – [Khan Academy](#) |
| 4    | **Chapter 5 – Sampling and Surveys**  
     | Section 5.1 - Samples, Good and Bad | Section 5.3 – [Khan Academy](#)  
     | Section 5.3 - Sample Surveys in the Real World |
| 5    | Section 5.1 - Samples, Good and Bad  
     | Section 5.2 - What do Samples Tell Us? |  
     | Section 5.2 – [Khan Academy](#)  
     | Section 5.3 - Sample Surveys in the Real World |
| 6    | Section 5.2 - What do Samples Tell Us?  
     | Section 5.3 - Sample Surveys in the Real World |  
     | Section 5.3 – [Khan Academy](#) |
| 7    | Section 5.3 - Sample Surveys in the Real World |  |
| 8    | Section 5.3 - Sample Surveys in the Real World  
<pre><code> | Assessment |  |
</code></pre>
<p>| 9    | Semester Assessment |  |</p>
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<tr>
<th>Week</th>
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</table>
| 1    | **Chapter 6 – Designing Experiments**  
* Section 6.1 - Experiments, Good and Bad | Section 6.1 – [YouTube](#) |
| 2    | **Section 6.1 - Experiments, Good and Bad**  
* Section 6.2 - Experiments in the Real World | Section 6.2 – [YouTube](#) |
| 3    | **Section 6.2 - Experiments in the Real World**  
* Section 6.3 - Data Ethics | Section 6.3 – [YouTube](#) |
| 4    | **Section 6.3 - Data Ethics**  
* Assessment  
* **Chapter 7 – Probability: What are the Chances?**  
* Section 7.1 - Randomness, Probability, and Simulation | Section 7.1 – [Khan Academy](#) |
| 5    | **Section 7.1 - Randomness, Probability, and Simulation** | Section 7.2 – [Khan Academy](#) |
| 6    | **Section 7.2 - Probability Rules** | Section 7.3 – [Khan Academy](#) |
| 7    | **Section 7.3 - Conditional Probability and Independence** | Section 8.1 – [Khan Academy](#) |
| 8    | **Section 7.3 - Conditional Probability and Independence**  
* Assessment  
* **Chapter 8 – Probability Models**  
* Section 8.1 - Probability Distributions | Section 8.2 – [Khan Academy](#) |
| 9    | **Section 8.1 - Probability Distributions**  
* Section 8.2 - Counting and Probability | Section 8.3 – [Khan Academy](#) |
| 10   | **Section 8.2 - Counting and Probability** | |
| 11   | **Section 8.3 - Binomial Distributions**  
* Quarter Assessment | |

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### Quarter 4
**Mar 29 – May 26**

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<tbody>
<tr>
<td>1</td>
<td>• Section 8.3 - Binomial Distributions</td>
<td>Section 8.3 – Khan Academy</td>
</tr>
<tr>
<td>2</td>
<td>• Assessment</td>
<td></td>
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</tbody>
</table>
| 3    | • **Chapter 9 – Introduction to Inference**  
  • Section 9.1 - What is a Confidence Interval? | Section 9.1 – Khan Academy |
| 4    | • Section 9.1 - What is a Confidence Interval?  
  • Section 9.2 - What is a Significance Test? | Section 9.2 – Khan Academy |
| 5    | • Section 9.2 - What is a Significance Test?  
  • Section 9.3 - Use and Abuse of Statistical Inference | Section 9.3 – JB Statistics |
| 6    | • Section 9.3 - Use and Abuse of Statistical Inference  
  • Assessment |                     |
| 7    | • **Chapter 10 – Inference in Practice**  
  • Section 10.1 - Chi-Square Tests: Goodness of Fit and Two-Way Tables | Section 10.1 – Khan Academy |
| 8    | • Section 10.1 - Chi-Square Tests: Goodness of Fit and Two-Way Tables  
  • Section 10.2 - Inference About a Population Mean | Section 10.2 – Khan Academy |
| 9    | • Section 10.2 - Inference About a Population Mean  
  • Assessment |                     |
|      | • Standards Review |                     |
|      | • Final Exam |                     |

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