|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Grade Level**  10th -12th AP Stat | | **Teacher/Room**: LPAYNE Week of: JAN 25-29 | | | |
| **Unit Vocabulary: Chapter 1-** Individual variable, bar-graph, stem plot, pie chart, histogram, outlier, categorical variable, median, quantitative  variables, 5-number summary Standard Deviation, quartiles, non-resistant, mean, shape, center, spread, box plot, resistant measure  **Chapter 2-** z-scores, percentiles, mean, standard deviation, normal curve, 68-95-99rule, density curve, normal distribution, normal probability plot | | | | | |
| **Instructional Strategies Used:** direct instruction, independent study, interactive instruction, **activities, case studies, case closed, data exploration.** | | | | | |
| **Day 1** | **Day 2** | | **Day 3** | **Day 4** | **Day 5** |
| **Common Core Standard(s)**:  Graphical displays are created for the purpose of analysis and communication. Interpretation of data is dependent upon the graphical displays and numerical summaries. The Who, What, Where, Why, and How of the data are important information that must be depicted in each given data set. The shape, center, and spread are important characteristics of a distribution. Statistical analysis and data display often reveal patterns that may not be obvious. The question to be answered determines the data to be collected and how best to collect it | **Common Core Standard(s)**:  **S.ID.4. Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.** | | **Common Core Standard(s)**:  **S.ID.4. Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.** | **Common Core Standard(s)**:  **S.ID.4. Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.** | **Common Core Standard(s)**:  **S.ID.4. Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.** |
| **EQ Question:**  What is data? How do we understand and communicate data? • Can you lie with statistics? How and to what extent? • What assumptions can be made from data? • How can graphical displays be manipulated to present misleading information? • How can data analysis be used to predict future happenings? • Does the data always lead to the truth? | **EQ Question:**  How does one assess normality? • Why is the normal distribution essential to the study of statistics? • How does the normal distribution apply to the real world? | | **EQ Question:**  How does one assess normality? • Why is the normal distribution essential to the study of statistics? • How does the normal distribution apply to the real world? | **EQ Question:**  How does one assess normality? • Why is the normal distribution essential to the study of statistics? • How does the normal distribution apply to the real world? | **EQ Question:**  How does one assess normality? • Why is the normal distribution essential to the study of statistics? • How does the normal distribution apply to the real world? |
| **Mini Lesson:**  Check homework and answer any questions  **Activating Strategies:**  **Lesson:**  TEST, Chapter 1  **Resource/Materials:**  Test, calculator, Formula Sheet, | **Mini Lesson:**  Where Do I Stand?  **Activating Strategies:**  Alternate Example 2.**1**  **Lesson**:  Measuring Position: Percentiles Cumulative Relative Frequency Graphs  Measuring Position: z-Scores Transforming Data Density Curves  **Resource/Materials:**  Textbook, calculator, powerpoint, notetaking guide | | **Mini Lesson:**  The Normal Curve Applet  **Activating Strategies:**  Alternate example 2.2  **Lesson**:  • The 65-95-99.7 Rule  • The Standard Normal Distribution  • Normal Distribution Calculations  • Assessing Normality  **Resource/Materials:**  Textbook, calculator, powerpoint, notetaking guide | **Mini Lesson:**  The Normal Curve Applet  **Activating Strategies:**  The Vending Machine Problem  **Lesson**:  Chapter Review  **Resource/Materials:**  Textbook, calculator, powerpoint, notetaking guide | **Mini Lesson:**  Check homework and answer any questions  **Activating Strategies:**  **Lesson:** TEST Chapter 2  **Resource/Materials:**  Textbook, calculator, powerpoint, notetaking guide |
| **Differentiation:**  *Content/Process/Product:* Class curriculum  *Grouping Strategy:* none  *Assessment:* | **Differentiation:**  *Content/Process/Product: Class curriculum*  *Grouping Strategy: Pairs*  *Assessment* | | **Differentiation:**  *Content/Process/Product: Class curriculum*  *Grouping Strategy: Pairs*  *Assessment* | **Differentiation:**  *Content/Process/Product: Class curriculum*  *Grouping Strategy: pairs*  *Assessment* | **Differentiation:**  *Content/Process/Product: Class curriculum*  *Grouping Strategy: pairs*  *Assessment* |
| **Assessment :**  Formative: homework  Summative: Chapter 1 test | **Assessment:**  Formative: homework  Summative: Chapter 2 test | | **Assessment:**  Formative: homework  Summative: Chapter 2 test | **Assessment:**  Formative: homework  Summative: Chapter 2 test | **Assessment:**  Formative: homework  Summative: Chapter 2 test |
| **Homework:**  Read Chapter 2 | **Homework:**  1, 5, 9, 11, 13, 15, 19, 21, 23, 31, 33-38 | | **Homework:**  41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 63, 65, 66, 68-74 | **Homework:**  Practice Test | **Homework:**  Read Chapter 3 |

Resources and Reflective Notes: