* **Math Analysis Honors**
* **Unit 14 Can You . . .**
* Determine whether data is qualitative or quantitative. If quantitative, is the data continuous or discrete?
* Given a set of data values determine:
  + Skewed right, left or symmetric
  + Best measure of the center
  + Best measure of spread
  + Mean
  + Median
  + Mode
  + Range
  + Inter-quartile Range
  + Upper Fence and Lower Fence
  + Outliers
  + Standard Deviation
* State which measure of center is best for any given data
* Draw a normal curve given the mean and the standard deviation. Use the Empirical Rule to find the percent of data above, below, or between given values.
* For normal data:
  + Find z-scores
  + Find percent of data above, below, or between given data values
  + Find the probability a data value will fall within a given range
  + Find the data value that determines a given percentile
* Organize data into a Venn Diagram and use set theory notation to answer follow up questions.
* Determine the probability of a given event, including those involving mutually exclusive events and independent events
* Given an experiment state the sample space and create a Probability Distribution Table
* Determine expected value
* Use counting techniques including those for combinations and permutations