Clarifying Content Priorities and Planning Assessments

Worth being familiar with:
- Key figures who contributed to the development of modern statistics (Pascal & Terman)
- Non-essential terminology, for example, interquartile range (no need to be able to define these)

Important to know and do:
- Measures of central tendency; mean, median, mode, range, standard deviation
- Data displays: bar graph, line plot, box and whiskers plot, stem and leaf plot
- Various statistical formulae and techniques

Big Ideas:
- “Average,” range, degrees of confidence, lying with statistics, valid model, reliable data
- Statistical analysis often reveals patterns that prove useful or meaningful
- Statistics can conceal as well as reveal
- Abstract ideas, such as fairness, can be modeled statistically

Core Tasks:
- Choosing the appropriate measure of central tendency in real-world situations
- Critique of real-world statistical analyses and misleading graphs

Example from Intro Statistics Course

Possible Assessment Types
- Quizzes
  - Selected response
  - Constructed response
- Performance Tasks and Projects
  - Open ended
  - Creative
  - Complex
  - Authentic