Instructional Flow — Unit 1A — Statistical Applications

I. Prior Knowledge Activation
- activating background knowledge
- pre-assessing student understanding

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II. Sampling
- developing a question
- identifying sampling techniques

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III. Application of Sampling
- applying different sampling techniques
- making predictions for the population

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IV. Data Analysis and Presentation
- gathering and presenting data
- exploring misleading data displays

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V. Statistical Measures
- interpreting the use of range and measures of central tendency
- investigating statistical measures for bias

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VI. Survey Project
- designing, conducting, analyzing, and communicating the results of a statistical experiment

Instructional Flow — Unit 1B — Set Theory

I. Introduction to Set Theory and Venn Diagrams

- identifying and describing sets, subsets, complements, unions, and intersections of sets
- using a Venn diagram to present sets and their relationships

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II. Number Lines and Rosters

- representing sets and set operations using number lines
- representing sets and set operations using rosters

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III. Problem Solving Using Venn Diagrams

- representing sets and set operations using a Venn diagram

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IV. Probability Using a Venn Diagram

- applying a Venn diagram to find probability

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V. Venn Diagrams and Number Systems

- using a Venn diagram to illustrate relationships among number systems