

**Unit Topic** Statistics and Probability

**Standards** M07.D-S.1.1; M07.D-S.2.1, M07.D-S.3.1; M07.D-S.3.2

**Unit Essential Question**

**Lesson 1 Focus**  
Sampling Analysis

**Standards**  
M07.D-S.1.1.1; M07.D-S.1.1.2

**Students Will Know... (Key Vocabulary)**  
random sample, population, sample, sampling bias, sample size

**Students Will Be Able To...**  
1.Determine whether a sample is a random sample. 2.Use data from a random sample to draw inferences about a population.

**Lesson Essential Question 1**  
What is a random sample?

**Lesson 2 Focus**  
Comparing Statistics - Central Tendency and Variability

**Standards**  
M07.D-S.2.1.1

**Students Will Know... (Key Vocabulary)**  
Mean absolute deviation, variability, mean, median, mode

**Students Will Be Able To...**  
1. Make a generalization about two sets of data by observing and comparing the statistics of two different samples. 2. Use the mean absolute deviation to measure the variability of a set of data. 3.Compare the mean, median or mode of two data sets to the mean absolute deviation of

**Lesson Essential Question 2**  
What are the measures of central tendency and variability?

**Lesson 3 Focus**  
Probability

**Standards**  
M07.D-S.3.1.1; M07.D-S.3.2.1; M07.D-S.3.2.2; M07.D-S.3.2.3

**Students Will Know... (Key Vocabulary)**  
probability, complement, independent events

**Students Will Be Able To...**  
1.Determine whether some outcomes are certain, more likely, less likely, equally likely or impossible. 2.Find the probability of an event given the relative frequency. 3.Find the complement of an event. 4.Find probabilities of independent compound events using words.

**Lesson Essential Question 3**  
How is probability used to predict or determine the likelihood of outcomes?

**Lesson 4 Focus**

**Standards**

**Students Will Know... (Key Vocabulary)**

**Students Will Be Able To...**

**Lesson Essential Question 4**

**Lesson 5 Focus**

**Standards**

**Students Will Know... (Key Vocabulary)**

**Students Will Be Able To...**

**Lesson Essential Question 5**

**Major Unit Assignment** Test

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