**7th Grade Mini Lesson Topics – Unit 6**

Proportional reasoning to solve problems with probability concepts

Use various representations, including lists, tree diagrams, tables, and the Fundamental Counting Principle

Represent sample spaces for simple and compound events

Compound events with both independent events and dependent events Use various methods to simulate simple and compound events. Simulation methods with and without the use of technology.

Simulations, data, the Law of Large Numbers and experiemntal probability

Distinguish between theoretical and experimental probability for a simple event.

Describe relationship between the probability of a simple event and its complement.

Probabilities represented as decimals, fractions, or percents.

Data and sample spaces in experimental and theoretical probabilities Experimental and theoretical probabilities from simple and compound events.

Qualitative and quantitative inferences from experiments, experimental data, theoretical probability, and random samples.

Qualitative and quantitative predictions from simple experiments Predictions and inferences from proportional relationships