## Probability Unit Vocabulary - Week One

Probability of an Event - the measure of the likelihood of an event to occur.

- The probability of an event is measured between 0 and 1 or 0\% and $100 \%$

Theoretical Probability - $\frac{\text { The Number of Favorable Outcomes }}{\text { The Number of Possoble Outcomes }}$

- Theoretical Probability is the probability of an event to occur based on mathematical certainty.
- For example the theoretical probability flipping a coin and getting a heads is $\frac{1}{2}$

Experimental Probability -- $\frac{\text { The Number of Favorable Events Observed }}{\text { The Total Number of Trials }}$

- Experimental Probability is the probability of an event occurring based on experimental results.
- For example, if the White Sox have won 3 out of their first 5 games, the experimental probability of winning their next game would be $\frac{3}{5}$

