

Grade 4

10C Students who meet the standard can determine, describe and apply the probabilities of events. *(Probability including counting techniques)*

Maintain	Target	Introduce
<ul style="list-style-type: none">• Describe events as likely or unlikely and discuss the degree of likelihood using such words as certain, equally likely, and impossible.• Explain probability as a fractional part of a group to the whole group (e.g., A tossed coin can land on heads or tails; therefore, it should land on heads $\frac{1}{2}$ of the time.)• Make predictions based on the results received from a probability experiment.• Create and perform a probability experiment (e.g., a penny is flipped 100 times) and record the results.• Understand that the measure of the likelihood of an event can be represented by a number from zero to one, inclusive.	<ul style="list-style-type: none">• List all possible outcomes of a single event and tell whether an outcome is certain, impossible, likely, or unlikely.• Describe the probability of an event using terminology such as “5 chances out of 8.”	<ul style="list-style-type: none">• List all possible outcomes of compound, independent events (e.g., toss a coin and spin a spinner).• Assign a value of zero to probabilities that are impossible and a value of one to probabilities that are certain.• Express simple probabilities as a fraction between zero and one.• Predict the probability of outcomes of simple experiments and test the predictions.