GROW
NEXT GEN

Worksheet 3: Probability

This has been a hypothetical simulation to help you understand the likelihood of an event to happen. We were using dice to randomly generate the outcome.

In nature there are more factors that should be considered. Here we will determine the probability of an event occurring within our simulation.

Definition

An **experiment** is a situation involving chance or probability that leads to results called outcomes.

An **outcome** is the result of a single trial of an experiment.

An **event** is one or more outcomes of an experiment.

Probability is the measure of how likely an event is.

When looking at probabilities, it is important to keep in mind the definitions that are listed above. This will help to keep the conversation on track.

In the space below, draw a tree diagram of the probability for each of the outcomes that may occur. Realize that there are 5 inhibitors that could cause plant death.

1. Using the data from the tally marks of Worksheet 2, fill in the columns of the data table with many plants events occurred.
2. Using the data from the tree above, what are the theoretical values?
3. Calculate the percent error.

	0	1	3	5	7	9	G
Actual Value							
Theoretical Value							
Percent Error							