

Place each answer in its correct location on the table.

The Hardy-Weinberg Principle

Condition	Violation	Consequence
	Many populations are small.	Chance events can lead to changes in population traits.
	Organisms move in and out of the population.	The population can lose or gain traits with movement of organisms.
	Mating is not random.	New traits do not pass as quickly to the rest of the population.
	Mutations occur.	New variations appear in the population with each new generation.
	Natural selection occurs.	Traits in a population change from one generation to the next.

Natural selection
does not occur.

The population is
very large.

Mating is random.

There is no
immigration or
emigration.

Mutations do not
occur.