

Directions: Use Drop Down Word Bank to complete 5 Causes of Evolution Concept Map

1 Non-Random Mating

Recombination:
crossing _____
of homologous chromosomes
during meiosis creates
new genetic combinations

5 Mechanisms (Causes) of Evolution
Evolution is a change in the **ALLELE FREQUENCIES** of a
Population over time

2 Gene Flow:
movement of
_____ from one population
to another

5 Genetic Drift:
random _____ in a
gene pool that occur
within a small population
due to chance

9 Mutations:
random changes to the _____
which changes the
genotypic and _____
ratios in a population

13 Natural Selection:
process in which organisms that
are _____ to their environment
survive and produce more offspring

caused by

3 _____:
movement of
organisms from
one area to
another area

result of

6 **Founder's Effect:**
occurs when few
individuals relocate to a **new
location** to live,
often a result of _____

7 **Bottleneck Effect:**
occurs when a
large number of
the population is
removed by a
random event or _____

caused by

10 Errors in _____
11 Mutagens from the _____

resulting in

12 the **introduction** of new
_____ into the gene pool, which
increases _____

regulated by

14 _____:
an organism's ability to
survive and

which contributes to

15 _____:
the act of
preying on
other animals

16 **Competition:**
Interaction between
species over a _____,
in which the fitness
of one species is
lowered by the
presence of another

4 _____:
Organisms move **IN**
an area
5 _____:
Organisms move
OUT of an area

which
8 _____ the amount
of genetic variation
within the new population