CONCEPT CARDS		
Fitness	Genes	Genetic Variation
Mutation	Natural Selection	Artificial Selection
Population	Selection Pressure	Trait

The ability of an Genes are coded individual to survive **DNA** instructions Differences in the alleles of genes that control the and reproduce viable offspring in its production of between individuals in a population proteins within the specific environment cell. Process by which Selection by humans individuals who are for breeding of Mutations are any better suited to changes in the useful traits from their environment genetic material of the natural survive and an organism. variations of an reproduce most organism successfully A specific characteristic that A group of Any element in a individuals of the varies from one population's individual to same species that environment that another; antibiotic live in the same makes certain traits area; the bacteria in resistance and slow more beneficial than the petri dish make reproduction speed others are traits different up a population bacteria may hold

Antibiotic	Strain	DNA
Antibiotic Resistance	Adaptation	

Antibiotics are chemical compounds that block the growth and reproduction of bacteria.	A variation in a particular species that possesses minor differences but still remains distinguishable	The molecule that carries the genetic instructions used in the development and function of all known living creatures
A trait developed through mutation that allows bacteria to resist the effects of medication used to treat them	A trait that improves the fitness and survival of a species within its environment	