**Vocabulary:** **Microevolution**

dictionary2

**Vocabulary**

* Allele – one of two or more forms that a gene could take.
* Cystic fibrosis – an inherited condition characterized by the production of abnormally thick mucus.
  + The thick mucus tends to clog the lungs and the ducts of the pancreas. This impairs breathing and often leads to infections.
  + Cystic fibrosis is caused by a *recessive allele*. Only individuals possessing two copies of the allele will have cystic fibrosis.
* Deleterious – harmful.
  + A deleterious allele may significantly reduce an individual’s chance of survival.
* Dominant allele – an allele that is always expressed when it is present.
  + Dominant alleles are usually represented by capital letters, such as *D*.
* Fitness – describes how well an organism can survive and reproduce in an environment.
* Genotype – the genetic makeup of an organism.
  + The alleles possessed by an organism are represented by symbols. For example, a parrot with dark green feathers might have the genotype *DD*.
* Heterozygote superiority – a pattern of natural selection in which the *heterozygous* variety has a greater fitness than either of the *homozygous* varieties.
* Heterozygous – having two alleles that are different.
  + A *Dd* parrot is heterozygous.
* Homozygous – having two alleles that are the same.
  + A *DD* or a *dd* parrot is homozygous.
* Incompletely dominant – a pattern of inheritance in which the recessive allele is not completely masked by the dominant allele.
  + If the alleles are incompletely dominant, a heterozygote will have a phenotype that is intermediate between the phenotypes of the homozygotes.
* Malaria – a disease caused by a protist belonging to the *Plasmodium* genus.
  + Malaria is spread by mosquitoes and is common in tropical regions throughout the world.
  + Malaria causes fever, joint pain, violent shivering, vomiting, and convulsions. Malaria can be deadly if not treated.
* Predator – an animal that kills and eats other animals.
  + Examples of predators include hawks, owls, lions, wolves, snakes, and sharks.
* Recessive allele – an allele that is not expressed when the dominant allele is present.
  + Recessive alleles are usually represented by lowercase letters, such as *d*.



**Sickled cells and oxygenated cells**

* Sickle cell anemia – a disorder characterized by abnormal red blood cells.
  + Sickle cell anemia causes the production of abnormal red blood cells that tend to stretch into a characteristic crescent shape when deoxygenated. These cells often become lodged in capillaries, blocking blood flow and reducing the supply of oxygen to body cells.
  + Sickle cell anemia is caused by a recessive allele. Only individuals with two copies of the allele will have sickle cell anemia.
  + Individuals with one copy of the sickle-cell allele do not experience sickle cell anemia but do have a resistance to malaria, a common tropical disease.