

Term: Acquired Trait

Definition: Traits that are not inherited. They are learned or gained in one's life. (i.e. piano playing ability, a scar, and playing basketball well).

Picture/Graphic/Symbol:



Sentence: Our acquired traits sometimes get confused with our inherited traits.

Term: Adaptation

Definition: A structural or behavioral characteristic that helps an organism survive and reproduce in it's changing environment. Adaptations can be for food getting, protection and movement. (SB)

Picture/Graphic/Symbol:



Sentence: 1. Changes in the environment can cause the need for adaptation. 2. Mutations can make changes in an organisms DNA and cause adaptation.

Term: Asexual Reproduction

Definition: A single parent produces offspring that are identical to the single parent. (SB)

Picture/Graphic/Symbol:

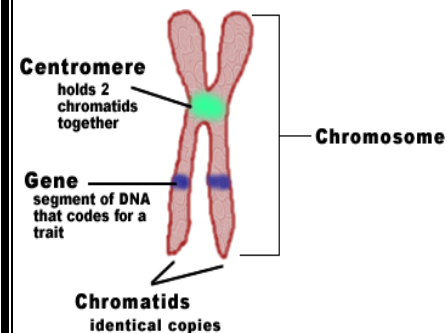


Sentence: 1. Asexual reproduction requires only 1 parent and the kids are 100% genetically identical to the 1 parent. 2. Asexual reproduction is quicker but provides less variety in the offspring.

Term: Chromosome

Definition: A coiled structure of DNA and protein that forms during cell division (mitosis). (SB)

Picture/Graphic/Symbol:

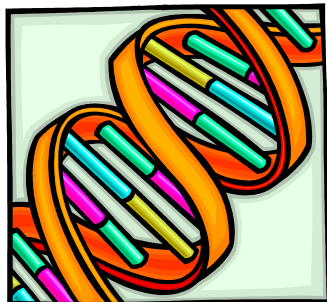


Sentence:

Term: DNA

Definition: Deoxyribonucleic acid. Hereditary material that controls all activities in the cell, has information for making new cells, and provides instructions for making proteins. (SB)

Drawing of Word:

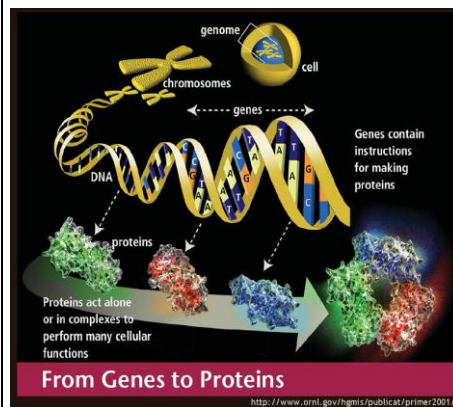


Sentence:

Term: Gene

Definition: Segments of DNA that are packaged into chromosomes that carry hereditary instructions and are passed from parent to offspring. (SB)

Drawing of Word:



Sentence: There are about 25,000 genes in the human body.

Term: Heredity

Definition: The passing of inherited traits from parent to offspring. (SB)

Drawing of Word:



Sentence: Heredity works differently for different organisms. Heredity involves the passing of a copy of 1/2 of each parents chromosomes, and the copies are contained within gamete cells.

Term: Inherited Trait

Definition: Traits that are passed from parents to children (offspring) through the genes. (SSD)

Drawing of Word:

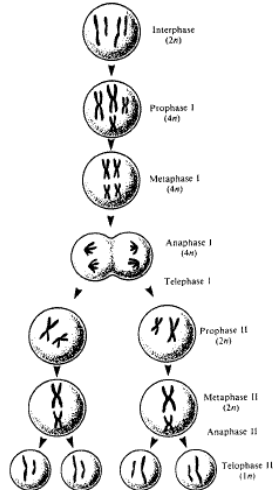


Sentence: 1. **Inherited traits** in AS organisms come from only one parent. 2. **Inherited traits** in S organisms come from two parents.

Term: Meiosis

Definition: Cell division that produces gametes.

Picture/Graphic/Symbol:

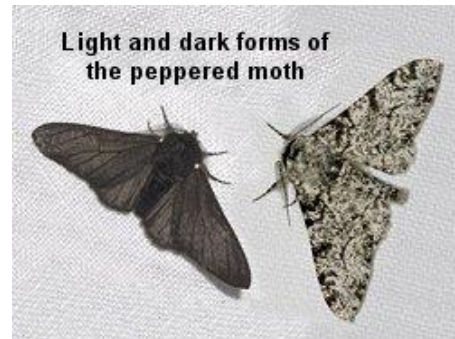


Sentence:

Term: Natural Selection

Definition: The natural process in which organisms with favorable traits survive and reproduce at a higher rate than those without the favorable trait.

Picture/Graphic/Symbol:



Sentence: 1. Natural selection is nature's way of ensuring that the strongest and best adapted survive and pass the traits on to the next generation. Over time the organisms with the weaker traits will tend to become less abundant in a species.

Term: Selective Breeding

Definition: The breeding of organisms that have a certain desired trait.

Picture/Graphic/Symbol:



Sentence: 1. Selective breeding happens much faster than natural selection. 2. Selective breeding has caused some problems in species. (i.e. turkeys, dogs etc.).

Term: S. Reproduction

Definition: Reproduction in which two parents contribute a gamete each to form an offspring.

Picture/Graphic/Symbol:

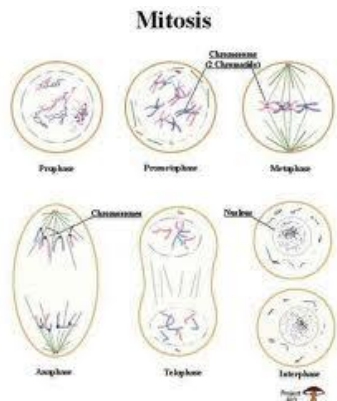


Sentence: 1. S. Reproduction requires 2 parents and the kids are 50% alike each parent. 2. S. Reproduction is slower but allows for more variety in the offspring.

Term: Mitosis

Definition: Cell division in eukaryotic cells.

Picture/Graphic/Symbol:



Sentence: 1. Mitosis ensures that each new body cell receives an exact copy of the original chromosomes. 2. Single-celled organisms can use mitosis as a method of reproducing.

Term: Evolution

Definition: The process by which populations of organisms accumulate inherited changes over time.

Picture/Graphic/Symbol:



Sentence: 1. Evolution occurs through a process called natural selection.

Term: Offspring

Definition: Children of organisms.

Picture/Graphic/Symbol:



Sentence: 1. Some organism have more offspring than others. 2. New offspring are essential to a species survival.

Term: Trait

Definition: A distinguishing quality that can be passed from one generation to another.

Picture/Graphic/Symbol:



Sentence: Some traits are inherited and some are acquired.