

Reporting Category 4

Sth Grade Science STAAR

Name the Relationships

8.11a R

Predator / Prey

Producer / Consumer

Predator / Prey

Parasite / Host

Factors in an Environment

Abiotic factors are factors that are _____

Biotic factors are factors that are











Nonliving

Living

Abiotic

Biotic

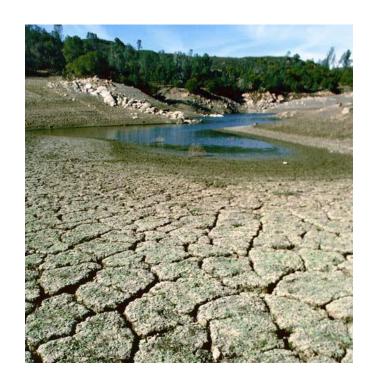
Abiotic

Biotic

Abiotic

_____ environmental change is a change that occurs quickly and affects organism immediately.





environmental change is a change that occurs slowly over time and affects organisms over generations.

Short Term

Long Term

Human Activities Modify Ocean Systems

Harvesting a resource to the point of diminishment





Something that drains or flows over the land into streams



The addition of harmful chemicals to natural water



A man-made, underwater structure that promotes marine life

Overharvesting

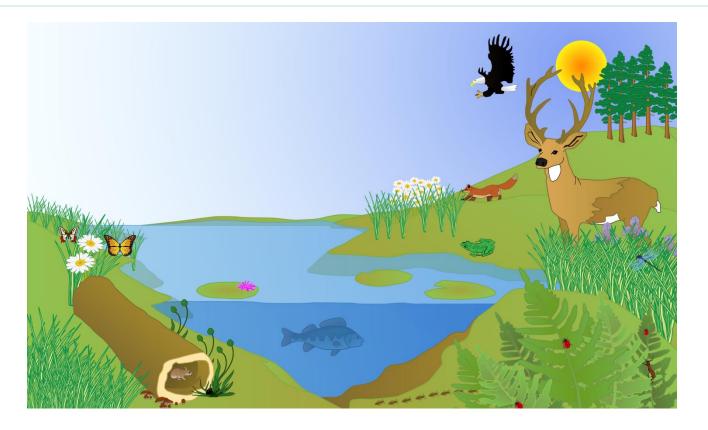
Runoff

Artificial Reefs

Pollution

	is the number of different species of plants and animals in an
area	

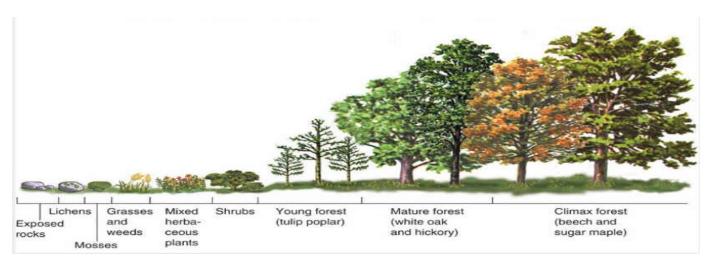
The more _____ that are in an ecosystem to choose from the more easily sustained it will be.



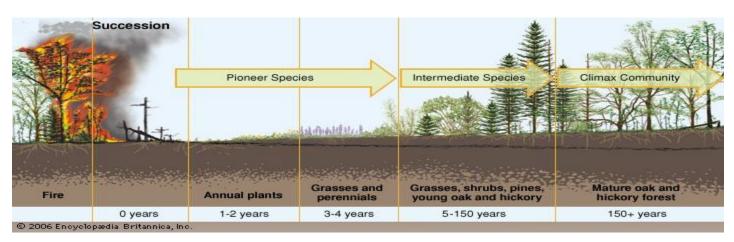
Diversity of species gives multiple options to choose from.

Biodiversity

Species



_____ succession begins with the establishment of Lichens and mosses on bare rock and no organism previously present.



_____ succession begins with the establishment of weeds and grasses in bare soil or in previously plowed ground.

Primary

Secondary

This is a _____key. This is used to identify organisms

Arachnid Observations				
#	Abdomen	Tail	Legs	
1	Segmented	Present with no stinger	Shorter than body	
2	Not segmented	Not present	Longer than body	
3	Segmented	Present with stinger	Shorter than body	

Dichotomous

Daddy Long Legs

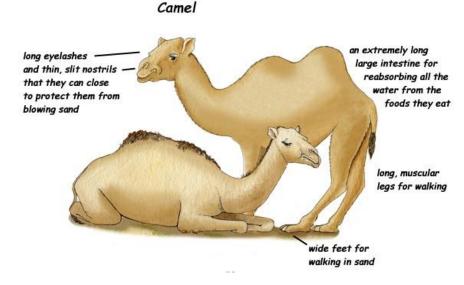
_____ is the process of selection whereby favorable traits become more common and less favorable traits become less common in following generations.





_____is a form of artificial selection whereby deliberate breeding results in desired traits in plants or animals.

_____ is a process by which a population becomes better suited to its habitat; a genetic variation that provides an advantage to survive and reproduce, generally spreads through the population.

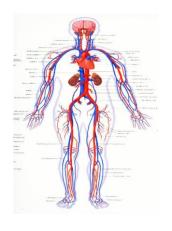


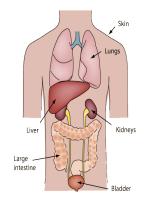
Natural Selection

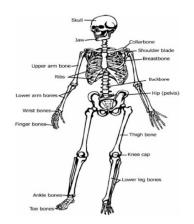
Selective Breeding

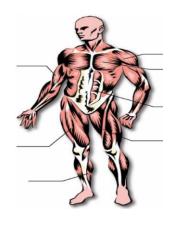
Adaptation

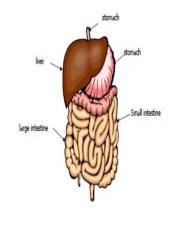
Identify The Body Systems and Describe Their Functions

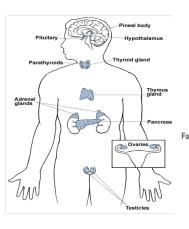


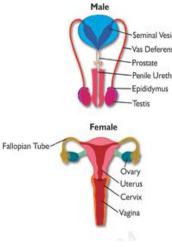




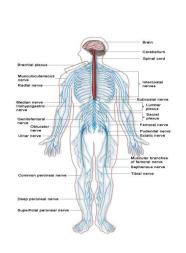


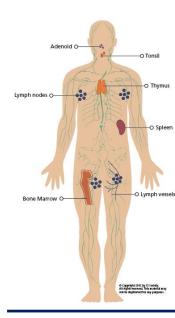












<u>The circulatory system</u> circulates blood through the body, supplies cells with oxygen and nutrients and removes waste products

<u>The respiratory system</u> supplies blood with oxygen in the lungs and removes carbon dioxide.

<u>The skeletal system</u> holds organs in place, provides a structural support for the body and its muscles, stores minerals and contains materials to make new blood cells.

<u>The muscular system</u> allows the body to move when attached to bone, and allows movement in internal organs such as the heart and intestines.

<u>The digestive system</u> converts food into simpler substances for the body to absorb as nutrients. Breakdown of food also provides energy for all body functions.

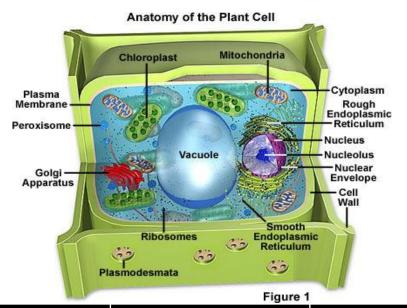
<u>The excretory system</u> filters water and fluids from the blood while also collecting waste urine.

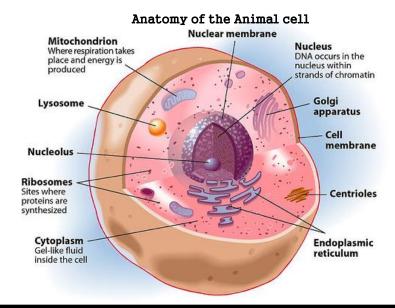
<u>The reproductive system</u> allows humans to continue as a species by fertilizing a female ovum with a male sperm through sexual reproduction.

<u>The integumentary system</u> continuously receives communication with the external environment (temperature, humidity, etc.) and protects the body's deeper tissues. It excretes waste, helps rid the body of heat and synthesizes vitamin D.

<u>The nervous and endocrine systems</u> work together and are the body's two systems for control and communication. The nervous system sends immediate and specific information as electrical impulses. The endocrine system sends signals in the form of hormones to the body but more slowly than the nervous system. The endocrine system controls growth, reproduction and metabolism.

The immune system responds to pathogens and provides defenses to the body's systems from disease.



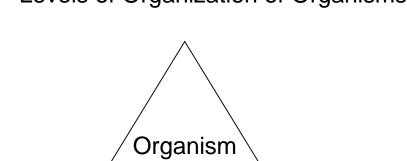


Plant or Animal	Cell Part	Function
	Cell Membrane	Controls movement of materials into and out of cell
	Vacuole	Storage compartment for water and other substances
	Mitochondrion	Releases the chemical energy from food
	Chloroplasts	Produces food for the cell by photosynthesis
	Nucleus	Controls activities of the cell and contains DNA
	Cytoplasm	Fills the cell with a jelly like substance
	Cell Wall	Provides rigid support for the plant cell

Plant & Animal
Plant & Animal
Plant & Animal
Plant
Plant
Plant
Plant & Animal
Plant & Animal
Plant

Levels of Organization of Organisms



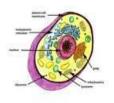


CELLS









organelle that acts as the power factory of the cell.

_____ is the theory that states that all organisms are composed of cells.

Organism

Organ System

Mitochondrion

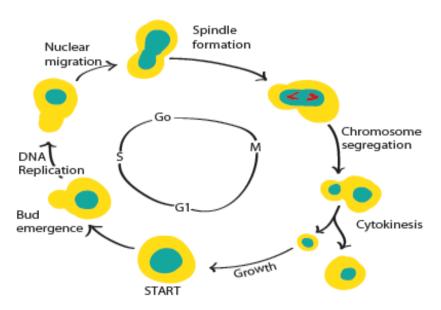
Organ

Tissue

Cells

Cell Theory

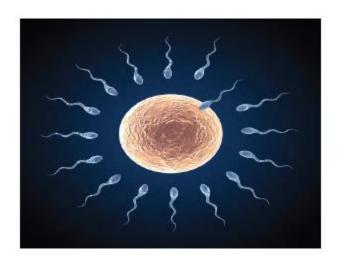
_____ is the reproductive process that involves one parent and produces offspring genetically identical to the parent. (Uniform Offspring)



Examples

Binary Fusion Budding

_____ is the reproductive process involving two parents whose genetic material is combined to produce a new organism different from themselves. (Diverse Offspring)



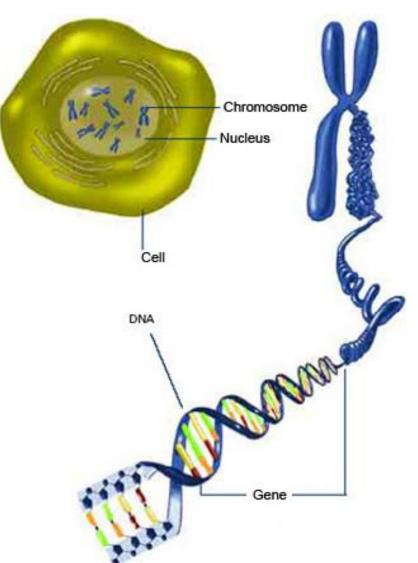
Examples

Offspring with mixed traits from parents

Asexual Sexual

DNA is the molecule that contains all of our _____information.

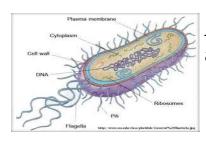
DNA is found ON the ______
which are located IN the
of the cell.



Genetic

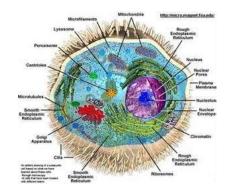
Chromosomes

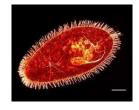
Nucleus



____an organism that lacks a membrane enclosed nucleus

an organism that has a membrane enclosed nucleus





_____An organism made up of one cell

_____ An organism made up of more than one cell





_____An organism that is able to make its own food

_____ An organism that cannot make its own food



Prokaryote Eukaryote Unicellular Multicellular Autotrophic Heterotrophic