Name	Block	Date
	FINAL EXAM VOCABULARY REVIEW	

10 percent	Crossing over	Gel electrophoresis	Monomer	Punnett square
Active immunity	Cuticle	Genus	Natural selection	Reflex
Active transport	Cystic fibrosis	Germ layers	Nitrogen	Respiratory system
ADP	Cytokinesis	Glucose	Nocturnal	Ribose
Aerobic	Cytoplasm	Guard cells	Nondisjunction	Ribosome
Allele	DDT	Gymnosperm	Nonvascular plants	RNA bases
Amphibia	Decomposers	Habituation	Nucleic acid	Root
Anaerobic	Diaphragm	Hermaphrodite	Nucleus	Seed
Animalia	Dichotomous	Hibernation	Nutrition	Selectively permeable
Annelida	Dicot	Homeostasis	Organ	Sex-linked
Arcahebacteria	Diffusion	Homologous	Organic	Sexual
Arthropods	Digestive system	Hormones	Osmosis	Sickle cell anemia
Atom	Disaccharide	Huntington's	Parasitism	Skeletal system
ATP	Diurnal	Hydrogen	Passive immunity	Specialization
B cells	Divergent	I ^A I ^A , or I ^A i	Passive transport	Speciation
Bacteria	DNA	Imprinting	Pea plants	Species
Biochemical evidence	Double helix	Incomplete dominance	Pedigree	Stamen
Camouflage	Down syndrome	Innate	Peptide	Stem cell
Cardiovascular system	Embryology	Integumentary system	рН	Stop codon
Carrying capacity	Endangered	Interphase	Phenotype	Symbiosis
Catalyst	Endosymbiotic theory	Invasive species	Phenylketonuria (PKU)	T cells
Cell	Enzyme	Karyotype	Phloem	Taxa
Cellular respiration	Estivation	Kidneys	Phospholipid	Tissue
Chloroplast	Eutrophication	Lipid	Photosynthesis	Transcription
CHON	Evolution	Macrophage	Phototaxis	Translation
Chordata	Excretion	Malaria (plasmodium)	Pistil	Transport
Chromatin	Exponential	Mammal	Plasma membrane	Vaccine
Chromosomes	Fertilization	Meiosis	Polygenic	Vacuole
Cladogram	Fluid mosaic	Migration	Population	Vertebrate
Cnidaria	Food web	Mimicry	Porifera	Vestigial
Codon	Fossils	Mitochondria	Predation	Viruses
Coelomate	Fruit	Monocot	Primary consumer	Water
Conditioning	G1 and G2 phases		Producer	Xylem
Covalent	Gamete		Protein (polypeptide)	Zygote

Use the word bank to fill in the following. Cross out words as you use them. **BIOCHEMISTRY:**

1.	Example of a monosaccharide (a simple sugar)
2.	Type of bond formed when two atoms share electrons
3.	Acronym of the 4 most abundant elements found in all living things (the first letter of each word)
4.	High energy storage compound (used by all cells)
5.	Term for a single 'subunit' in biochemistry
6.	Process of transferring energy stored in glucose to ATP
7.	Primary component of the cell membrane
8.	Compounds that contain carbon
9.	'Universal solvent'

Name		Block Date
	10.	Building blocks of matter
		A weak bond (can by easily broken)
		Composed of two simple sugars
		A type of protein that can speed up the rate of a reaction; never used up
	14.	This is formed when one phosphate is given up by ATP in order to release energy
	15.	Organic compound: 3 fatty acids + 1 glycerol
		Bond formed between two amino acids
		Anything that speeds up a chemical reaction by lowering the activation energy
		Used to measure the Hydrogen Ion concentration of a solution (indicates acid or base)
CELLS:		
	19.	X-shaped structure in the nucleus of eukaryotic cells visible during cell division
	20.	Composed of tissues
	21.	Storage tank for H ₂ 0 & dissolved material
		Control center of cell activities; found only in eukaryotic cells
	23.	Made of cells
	24.	Cells that use 0_2 to convert energy.
	25.	Powerhouse of cell in all eukaryotic cells, cellular respiration occurs here
	26.	Selectively permeable
	27.	Basic unit of structure and function of all living things
		Gel-like material outside nucleus
	29.	Plant organelle where photosynthesis occurs
	30.	Type of cell division that forms gametes
	31.	Location of protein synthesis
	32.	Stable internal conditions
	33.	The process of making ATP without oxygen
	34.	When a cell takes on a specific function; occurs during embryonic development as tissues form
	35.	A cell that has not yet differentiated and can become any type of cell
	36.	Describes the cell membrane's property of allowing only certain molecules in and out of the cell
	37.	Phases of the cell cycle when the cell is focused on producing protein and growing
	38.	Model of how prokaryotic cells may have become eukaryotic cells
DNA:		
	39.	Made up of three mRNA nucleotides
	40.	Transfer of info from DNA to RNA
	41.	Signals the end of a protein to the ribosome (2 words).
	42.	Process that builds proteins
	43.	Adenine, uracil, cytosine, guanine
	44.	Nucleotide + nucleotide + nucleotide + nucleotide
<u> </u>	45.	Sugar found in RNA nucleotides
	46.	Amino acid + amino acid + amino acid + amino acid
	47.	Double stranded nucleotides of Deoxyribose, phosphate group, and base.
	48.	Shape of DNA
	49.	Used to sort strands of DNA by size by the use of electrical attraction
	50.	DNA is in this form in the nucleus during interphase

CELL TRANSPORT:

Name	Block Date
51.	Model of the cell membrane (or lipid bilayer)
52.	Diffusion of water through semipermeable membrane
53.	Movement across the membrane that does not require cell energy
54.	Molecules spreading out evenly throughout a solution (moving from a high to low concentration
55.	Occurs when molecules move against concentration gradient; requires ATP
CELL REPRODUCTION /	
56.	Used to examine fetal cells (chromosomes) for genetic disorders
57.	Egg or sperm
58.	Fertilized egg
59.	Physical trait expressed using words
60.	Form of reproduction that allows for genetic variation
61.	Part of cell cycle in which the cell grows and DNA replication occurs
62.	Chart used to show patterns of inheritance in a particular family
63.	Varying forms of the same gene
64.	Exchange of genetic information between similar chromosomes
	Union of egg and sperm
	Chromosomes with the same genes or information
67.	Used to predict probability of producing offspring with a particular trait
68.	RR = Red, rr = white, Rr = pink
69.	Failure of homologous chromosomes to separate
70.	Genotypes for an individual with type A blood
71.	Division of the cytoplasm of the cell
72.	Mendel's test subjects of his genetic experiments
73.	3 - 21 st chromosomes, also known as Trisomy 21
74.	Example of an autosomal dominant disorder; deterioration of the brain
75.	Type of inheritance for red-green colorblindness, hemophilia, and muscular dystrophy
76.	Example of an autosomal recessive disorder; buildup of mucus in the lungs and other organs
77.	Disorder where individual cannot break down phenylalanine; can be regulated through diet
78.	Disorder where hemoglobin is misshaped; provides immunity to malaria
79.	A trait determined by many different genes located on different chromosomes; ex. Human height
EVOLUTION:	
80.	A chart used to show evolutionary relationships and adaptations
81.	Traces or impressions of organisms that were once alive
82.	Darwin's theory that organisms change over time to be better adapted to their environment
83.	DNA, RNA & protein similarities
84.	A change in a species over time
85.	Caused by geographic and reproductive isolation
86.	Type of evolution that results in homologous structures
87.	Structures that no longer serve a function (but at one time did).
	Comparison of the features of unborn organisms.
	First life forms
09.	Chemicals that allow communication between cells
	Chemicals that allow communication between tens
91.	Key used to identify unknowns (provides 2 options each time)

Name		Block Date
		Classification group
		First word of every scientific name
	94.	Second word of every scientific name (smallest taxon).
		Kingdom of bacteria that live in harsh conditions
	96.	Multicellular heterotrophs that lack cell walls
		How organisms get what they need to cells
		How organisms get rid of waste and balance fluids
	99.	How organisms break down and get rid of food
	100.	Disease-causing nonliving particles
	101.	Disease caused by the transmission of a protist from organism to organism by mosquitoes or ticks
PLANTS:		
	102.	Stigma + style + ovary
		Veins in leaves parallel
	104.	Embryo and endosperm surrounded by a protective coat
		Cone bearer
	106.	Moves water and nutrients up a vascular plant
		Moves food (starch) down a vascular plant.
		Ripened ovary
		Covering on stem & leaves that prevents water loss
	110.	Petals & sepals in multiples of 4 or 5
	111.	Anther + filament
		Anchor, storage, takes in water & minerals
	113.	Production of glucose from CO ₂ , H ₂ O and light.
	114.	Moss, liverwort and hornwort
	115.	Opens/closes stomata to allow gas exchange
ANIMALS:		
	116.	Endoderm, mesoderm, ectoderm
	117.	Having a true body cavity
	118.	Possessing a backbone
	119.	Body covered with hair, 4-chamber heart, endothermic (warm blooded)
	120.	Sponge
	121.	Crab, insects, spiders
	122.	Lancelet, tunicate, shark, dog
	123.	Jellyfish
	124.	Earthworms & leeches
	125.	Must lay eggs in water, moist skin, vertebrates
	126.	An animal capable of producing sperm and egg
BODY SYSTEMS:		
	127.	Nasal passages, larynx, trachea, bronchi, alveoli, lungs
	128.	Heart & blood vessels
	129.	Mouth, stomach, intestines
	130.	Skin, sweat glands, hair
	131.	Bones, ligaments, joints
	132.	Muscle that separated the thoracic and abdominal cavity

Name		Block Date
	133.	Filters waste from the blood and sends it to the bladder.
	134.	Cells that engulf foreign particles
	135.	Cells that kill foreign particles through chemical means
		Cells that produce antibodies
	137.	An inactive dose of a pathogen to allow the body to produce antibodies and memory cells
	138.	Type of immunity where a person actively makes antibodies to fight an infection
	139.	Type of immunity where a person receives antibodies from the mother through the placenta
BEHAVIOR:		
	140.	Active during day
	141.	Orientation movement; moth to light
	142.	Automatic response
	143.	Escape of high temperature and dry periods
	144.	Inborn behavior
	145.	Escape of low temperature
	146.	Behavioral movement; birds & salmon
	147.	Geese identify scientist as mother
	148.	Active at night
	149.	Training by association
	150.	When an animal no longer responds to a stimulus; ex. Sleeping through noises that used to both
ECOLOGY		
	151.	White rabbit in the artic snow
	152.	Members of a species in one area
	153.	Hawk eating snake
	154.	Trophic level of a maple tree, moss, fern or algae
	155.	Number of individuals environment can support
	156.	Trophic level of a grasshopper
	157.	Tick on a dog
	158.	Numbers in a population become so low that extinction is possible
	159.	Made up of interrelated food chains
	160.	Pesticide that caused thin-shelled eggs
	161.	Fungi and bacteria
	162.	Organisms interacting and living together
	163.	Approximate amount of energy transferred from level to level
	164.	Currently, most human populations show this type of growth
	165.	Bacteria in legumes "fix" this into a form that plants can use.
	166.	A body of water receives an increased amount of nutrients, leading to algal growth and then dea
	167.	Looking like a poisonous animal (even though it isn't).
	168.	A species from another environment which out-competes the native species
Put the followi	ng in or	der from smallest to largest:

166. Tissue, Organism, Organs, Cell, Organ Systems

Match one of the choices below with each statement (none will be used twice):

It's about the air!

- 168. _____ Condition that results when CO₂ in the atmosphere absorbs heat from earth forming an atmospheric blanket.
- 169. _____ Bacteria in legumes are able to take nitrogen from the air to make it usable
- 170. _____ Flying would be a good way for birds to do this.
- 171. _____ Precipitation that contains acid as a result of pollutants combing with water vapor.
- 172. _____ Pollutants such as chlorines cause depletion of this.

Eat in or take out!

- 173. _____ Consumers that are not carnivores could be these (ex. Grasshopper).
- 174. _____ Feeding levels in an ecosystem are called this
- 175. _____ Interconnecting food chains
- 176. _____ Compares the total amount of energy at each trophic level
- 177. _____ Bacteria and fungi are examples

"BIO" world

- 178. _____ Non-living components of an ecosystem
- 179. _____ Term to describe a substance that can be broken down by microorganisms
- 180. _____ A branch of science that is the study of life
- 181. _____ Living components of an ecosystem
- 182. _____ Processes allow nutrients to move through the biosphere

"P" words!

- 183. _____ Results in killing and eating other organisms
- 184. _____ Undesirable change in an ecosystem (ex. Factory emissions)
- 185. _____ A substance like DDT that kills insects that damage crops
- 186. _____ An organism that can make its own food would be one of theses
- 187. _____ Individuals of the same species in a given area

Odds and Ends!

- 188. _____ Number of organisms that can be supported by the environment
- 189. _____ In the water cycle, this is evaporation from leaf surfaces
- 190. _____ Raw material that supports life
- 191. _____ Close relationship between two different species (ex: commensalisms, parasitism, mutualism)
- 192. _____ Predictable, sequential replacement of populations in an ecosystem

Places to Live!

- 193. _____ All the populations of organisms living in a ecosystem
- 194. ____ Consists of abiotic & biotic factors
- 195. _____ Physical area where an organism lives
- 196. _____ Part of Earth where life exists
- 197. _____ Environment that has a characteristic climax community
- A. Abiotic
- B. Acid rain
- C. Biodegradable
- D. Biogeochemical cycle
- E. Biology
- F. Biome
- G. Biosphere
- H. Biotic
- I. Carrying capacity
- J. Community

- K. Decomposer
- L. Ecosystem
- M. Energy pyramids
- N. Food webs
- O. Greenhouse effect
- P. Habitat
- O. Herbivore
- R. Migration
- S. Natural resources
- T. Nitrogen fixation

- U. Ozone layer
- V. Pesticide
- W. Pollution
- X. Population
- Y. Predation
- Z. Producer
- AA. Succession
- BB. Symbiosis
- CC. Transpiration
- DD. Trophic level