**Biology Vocab (Instruction Sheet)**
**All Words for Biology will be on the HOME page of** *grossbiology.weebly.com*

**FOR EACH WORD DO THE FOLLOWING:**

**1. Define it by writing definition from 2 sources**
(source could be **class** Other source can be [glossary](http://www.phschool.com/science/biology_place/glossary/index.html%22%20%5Ct%20%22_blank) or [glossary 2](https://biologywise.com/biology-glossary-of-terms-definitions%22%20%5Ct%20%22_blank) or [glossary 3](http://www.macroevolution.net/biology-dictionary-gagd.html%22%20%5Ct%20%22_blank) or [glossary 4](https://www.cliffsnotes.com/test-prep/high-school/tools-and-resources/biology-glossary%22%20%5Ct%20%22_blank))

**2.  Use the word in a sentence**

**3. Draw a picture or symbol to represent the word
&/or
write word in your native language**

**Words for all year:**

Biology
Claim
Evidence
Explain
Connect
​Value
Change
System
​Interconnectedness
Feedback
​Communication
Respect

**Roots, suffixes & prefixes**
bio - life
ology - the study of
soma- body
auto- self
in- not
​an/a- not
photo- light
synthesis- to create/ combine
Kary - nucleus
pro- pre
Eu- true
​eugene- well born
epi- above, on top of, over
mono- 1
tri- 3
​somy- chromosome

**LT 1- STRUCT/FUNCTION**

System
Interconnected
​Value
Structure
Function
Enable
Life
Organism
Nucleic Acids
RNA
DNA
​double helix
nucleotide
sugar-phosphate backbone
nitrogenous base
covalent bond
hydrogen bond
Amino acid
Protein
Abiotic
Biotic
Cell
Brain
Amygdala
Nucleus Accumbens
Prefrontal Cortex
neuron (nerve cell)
Central Nervous System
Peripheral Nervous Sys
Sensory neuron
Motor neuron
Nervous system
Autonomic NS
Somatic NS
Parasympathetic NS
Sympathetic  NS
Hippocampus
Hypothalamus
Thalamus
Cerebral Cortex
Mirror neuron
Glial cells
Interneuron
Spinal cord
Brain stem
Abdominal breathing/
   belly breathing
Vagus Nerve
Acetylcholine
Adrenaline
Cortisol
Respiratory system
nose
mouth
trachea
bronchii
Ciliated epitheleum
alveoli
bronchiole
Lungs
ribs
sternum
nose hair
​mucous
Circulatory system
Veins
Arteries
Capillaries
heart
Nose hairs
Monomer
polymer
molecule
macromolecule

**LT 2- ENERGY**

Prokaryote
Eukaryote
Chloroplast
Chlorophyll
Carbon dioxide
Water
yields
glucose
oxygen
photosynthesis
light dependent
light independent
light energy
Cell respiration
mitochondria
ATP (chemical energy)

**LT 3 Intersession**

**LT 4- GENETICS**

Histone Proteins
Methyl Groups
Epigenome
Fertilization
Cell differentiation
Differentiated Cell
Zygote
Morula
Blastocyst
​Embryo
Implantation
Ovulation
Menstruation
Menstrual Cycle
Stem Cell
​Differentiated cell
Embryonic Stem Cell
Somatic stem cells
race
mutation
Potency
Pluripotent
Multipotent
Unipotent
​Totipotent
Induced-pluripotent stem cell
Meiosis
​crossing over
Mitosis
DNA
hereditary
double helix
histone protein
chromosome
characteristics
​trait
related
generation
gene
Genome
allele
Phenotype
Genotype
Chromosomal- abnormalities
Numerical abnormalities
Structural abnormalities
dominant
recessive
autosomal chromosomes
variation
allele
tRNA
mRNA
RNA polymerase
polygenic
monogenic
nucleotide
sugar
phosphate
nitrogenous base
covalent bond
hydrogen bond
​Cell cycle
somatic cell
gamete
Eugenics
eugene
telomere (aglet)

**LT 5- EVOLUTION**
Variation
Evolution
Adaptation
Mutation
Natural Selection
Artificial Selection

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| --- | --- | --- | --- | --- |
| Word | Define 1 | Define 2 | Sentence | Picture/Native Language |
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