VOCABULARY FOR THE

NEW YORK STATE

LIVING ENVIRONMENT CORE CURRICULUM GUIDE

Alphabetized
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updated with lab appendix and several terms to be included in a new edition to be
released at some point

Note on Part D Vocabulary:

According to various people involved in Regents Exam development at SED, we can use the words specific to a required lab in Part D only in an item based on that particular lab, and this would only be acceptable to the extent that it was explained in the lab. A word from one lab can not be used in items based on any of the other required labs. In other words, we cannot just take a vocabulary word in a lab and assume full knowledge of it in the way it is understood now, or was required in the old syllabus. The words have a context and that must be considered too.

For example, a word such as mRNA can be used when asking about the Biodiversity lab. A student could be asked, given a particular DNA sequence and a mRNA codon table, to deduce the mRNA that would be formed, but a question about its movement from the nucleus to the ribosomes would not be OK unless that was specifically mentioned in the lab.

A word that does not appear in the core, but is used in one of the required labs can't show up on Parts A, B, or C of the same exam even though the lab is required during that academic year.

Using the same example, since in the Biodiversity Lab the word "translates" is used in explaining the connection between the mRNA and the protein, it would be acceptable to see the word "translates" or "translation" in a question that specifically tests the Biodiversity lab, but a question on part A or B to the tune of "Identify the molecule that is made when the sequence of molecular bases originally in DNA is translated." would not be acceptable.

STANDARD 1

Bias (*2.3c*)
Chance (*3.2*)
Charts (*3.1*)
Concepts (*1.1b*)
Conclusion (*3.3*)
Consensus (*KI 2 Intro*)
Conventional (*KI 31 Intro*)
Diagrams (*3.1*)
Discipline (*1.4*)
Electronic (*2.2*)
Equations (*3.1*)
Ethical (*Intro*)

Experiment (*Intro*)
Formulations (*1.1*)
Generalizations (*3.1*)
Hypotheses (*2.3*)
Infer (*Intro*)
Invented (*KI 3 Intro*)
Matrix (*3.1*)
Methodologies (*2.2*)
Peer review (*Intro*)
Phenomena (*1.1*)
Prediction (*1.3a*) (*3.3*)
Proposal (*2.3*)

Reasoning (*KI 2 Intro*)
Sample size (*2.3c*)
Science (*Intro*)
Scientific inquiry (*KI 1 Intro*)
Societal (*Intro*)
Society (*1.1b*)
Statistical analysis (*3.2*)
Technologies (*2.2*)
Theory (*1.4*)
Values (*1.1c*)

STANDARD 4

A, G, C, T (*2.1f*)
Abiotic (*KI 6 Intro*)
Active transport (*1.2g*)
Adapted (*KI 3 Intro*)
Adaptive characteristics (*3.1l*)
Adaptive value (*KI 3 Intro*)
Aging (*KI 4 Intro*)
AIDS (*5.2f*)
Algae (*6.1a*)
Allele (*new edition to be released*)
Allergic reactions (*5.2g*)
Altered ecosystem (*6.3c*)
Altered gene (*2.1h*)
Amino acids (*1.2h*)
Antibiotic (*KI 3 Intro*)
Antibody (*5.1g*)
Antigens (*5.2c*)
Asexually reproducing (*2.1d*)
Atmosphere (*7.1b*)
Atom (*6.1b*)
ATP (*5.1d*)
Autotrophic (*1.1a*)
Bacteria (*2.2c*)
Balance (*KI 1 Intro*)
Balanced internal environment (*1.2c*)
Base (DNA) (*2.1f*)
Behavior (*KI 3 Intro*)
Benefit (*7.3a*)
Biochemical process (*KI 5 Intro*) (*5.1f*)
Biodiversity (*6.2a*)
Biological catalysts (*5.1f*)

Biological evolution (*3.1a*)
Biosphere (*6.1b*)
Biotechnological methods (*KI 2 Intro*)
Biotic (*KI 6 Intro*)
Birth (*KI 4 Intro*)
Body cells (*2.1k*) (*3.1d*)
Bonds (*5.1c*)
Breakdown (*5.1f*)
Building blocks (*1.2h*)
Cancer (*5.2c*)
Cancerous cell (*5.2f*)
Carbon (*6.1c*)
Carbon dioxide (*5.1b*)
Carnivore (*6.1a*)
Carrying capacity (*6.1d*)
Cell membrane (*1.2i*)
Cells (*KI 1 Intro*)
Cellular (*KI 1 Intro*) (*5.3a*)
Cellular communication (*1.2j*)
Cellular respiration (*5.1d*)
Chains (*2.1i*)
Change during lifetime (*KI 3 Intro*)
Characteristic (*KI 2 Intro*)
Chemical change (*5.1f*)
Chemical composition (*KI 1 Intro*) (*7.2a*)
Chemical energy (*5.1c*)
Chemical reaction (*1.2h*)
Chemical signals (*1.2g*)
Chlorophyll (*new edition to be released*)
Chloroplasts (*5.1b*)

Chromosomes (*2.1c*)
Circulation (*1.2b*)
Climatic change (*6.3c*)
Cloning (*4.1b*)
Coded instructions (*2.1b*)
Combination of genes (*3.1b*)
Combinations of traits (*KI 2 Intro*)
Competition (*KI 6 Intro*)
Complex organism (*1.3*)
Components (*KI 1 Intro*)
Compounds (*1.2h*)
Consumer (*1.1a*) (*6.1g*)
Consumption (*7.1c*)
Continuation (*4.1a*)
Continuity (*KI 2 Intro*) (*KI 4 Intro*)
Control mechanisms (*1.2c*)
Coordination (*1.2b*)
Corrective actions (*1.2c*) (*KI 5 Intro*)
Costs (*7.3a*)
Cyclic changes (*1.1e*)
Cycling of materials (*KI 6 Intro*)
Cytoplasm (*1.2i*)
Death (*KI 5 Intro*)
Decomposer (*1.1a*) (*6.1a*)
Deforestation (*KI 7 Intro*)
Deleting DNA segment (*2.2d*)
Development (*KI 4 Intro*)
Deviations (*1.2c*) (*KI 5 Intro*)
Diagnosing (*5.2j*)
Differentiation (*KI 4 Intro*)
Diffusion (*1.2g*)

Digestion (*1.2b*) (*1.2h*)

Direct harvesting (*7.1c*)

Disease (*KI 5 Intro*)

Disturbance (*6.3*)

Diversity (*KI 1 Intro*) (*KI 3 Intro*)

DNA (*KI 2 Intro*)

Dynamic equilibrium (*KI 5 Intro*)

Ecological community (*6.3b*)

Ecological niche (*KI 6 Intro*)

Ecological succession (*6.3b*)

Ecology (*KI 6 Intro*)

Ecosystem (*KI 1 Intro*)

Ecosystem stability (*1.1f*) (*6.2a*)

Egg (*2.1e*)

Eliminate waste (*5.1e*)

Embryo (*4.1f*)

Embryonic development (*4.1h*)

Encoded (*2.1f*)

Endocrine (*new edition to be released*)

Energy (*KI 5 Intro*)

Energy pyramid (*6.1b*)

Energy-rich (*5.1b*)

Engulf (*5.2d*)

Environment (*1.1b*) (*KI 3 Intro*)

Environmental change (*6.2a*)

Environmental factors (*1.1d*)

Environmental impact (*KI 4 Intro*)

Environmentally literate (*KI 7 Intro*)

Enzyme (*2.2c*)

Enzyme-controlled (*KI 5 Intro*)

Equilibrium (*1.1e*)

Established ecosystem (*1.1d*)

Estrogen (*4.1e*)

Evolution (*KI 3 Intro*)

Evolutionary change (*KI 3 Intro*)

Excretion (*1.2b*)

Expression (*2.1a*)

External environment (*KI 5 Intro*)

Extinction (*3.1l*)

Fat (*5.1c*)

Feedback mechanism (*5.3b*)

Fertilization (*3.1c*) (*KI 4 Intro*)

Fetus (*4.1f*)

Finite resources (*KI 7 Intro*)

Flow of energy (*KI 6 Intro*)

Food chain (*KI 6 Intro*)

Food web (*KI 1 Intro*) (*KI 6 Intro*)

Fossil fuel (*7.2c*)

Fossil record (*3.1e*)

Function of protein (*2.1i*)

Functions (*1.2*)

Fungus(i) (*5.2b*)

Gamete (*KI 4 Intro*)

Gene (*KI 2 Intro*)

Gene mutation (*3.1d*) (*5.2i*)

Generation (*2.1b*) (*7.3b*)

Genetic (*KI 1 Intro*)

Genetic engineering (*KI 2 Intro*)

Genetic information (*KI 2 Intro*) (*2.1e*)

Genetic makeup (*2.2*)

Genetic manipulation

Genetic material (*2.1*)

Genetic variability (*3.1f*)

Genetically identical (*2.1d*) (*KI 4 Intro*)

Geological time (*KI 3 Intro*)

Global awareness (*KI 7 Intro*)

Global stability (*7.1c*)

Global warming (*KI 7 Intro*)

Glucose (*5.1b*)

Green plant (*6.1a*)

Growth (*KI 4 Intro*)

Guard cells (*5.3b*)

Habitat (*6.1d*)

Heart rate (*5.3b*)

Herbivores (*6.1a*)

Hereditary (*KI 1 Intro*)

Heredity (*2.1b*)

Heterotrophic (*1.1a*)

Homeostasis (*KI 1 Intro*) (*KI 5 Intro*)

Homeostatic feedback mechanism (*KI 5 Intro*)

Hormone (*1.2j*)

Host (*6.1g*)

Hydrogen (*6.1c*)

Imbalance (*1.2d*)

Immune system (*5.2c*)

Immunity (*1.2b*)

Individual (*2.1e*)

Individual choice (*7.3*)

Industrialization (*7.2c*)

Infections (*4.1f*)

Infectious agent (*5.2f*)

Inherit (*KI 2 Intro*)

Inheritable characteristic (*3.1b*)

Inheritance (*5.2h*)

Inherited (*2.1a*)

Inorganic (*1.2h*)

Insect (*KI 3 Intro*)

Inserting DNA segment (*2.2d*)

Insulin (*5.3b*)

Interactions (*1.1c*) (*1.2j*)

Interdependence(y) (*1.1d*) (*6.3*)

Internal development (*4.1f*)

Internal environment (*KI 5 Intro*)

Internal fertilization (*4.1f*)

Interrelationship (*6.3a*)

Kingdoms (*KI 2 Intro*)

Learned behavior (*KI 5 Intro*)

Level of organization (*KI 1 Intro*)

Life functions (*1.2b*)

Light intensity (*6.1e*)

Long-term stability (*6.3c*)

Mammal (*4.1f*)

Manipulation of genes (*KI 2 Intro*)

Mate (*KI 6 Intro*)

Mechanism of evolution (*3.1*)

Meiosis (*3.1c*)

Membrane (*1.2g*)

Metabolic (*KI 1 Intro*)

Microbes (*5.2e*)

Milk (*4.1f*)

Mineral availability (*6.1e*)

Minerals (*6.1d*)

Mitochondria (*1.2i*) (*5.1d*)

Mitosis (*KI 4 Intro*)

Molecular bases (DNA) (*2.1f*)

Molecular basis of heredity (*KI 2 Intro*)

Molecules (*1.2g*) (*1.2i*)

Monitor (*KI 5 Intro*)

Movement (*1.2b*)

Multicellular (*KI 1 Intro*) (*1.3a*)

Mutation (*KI 2 Intro*)

Natural disaster (*6.3c*)

Natural selection (*KI 3 Intro*)

Nerve cell (*1.2j*)

Nitrogen (*6.1c*)

Normal state (*KI 5 Intro*)

Nuclear fuel (*7.2c*)

Nucleus (*1.2i*)

Nutrient (*1.2i*)

Nutrition (*5.2h*)

Offspring (*KI 2 Intro*)

One-celled organism (*1.3*)

Organ (*1.2a*)

Organ malfunction (*5.2h*)

Organ systems (*KI 1 Intro*)

Organelles (*1.2*)

Organic (*1.2h*)

Living Environment Vocabulary sorted alphabetically   William Siebert Arlington High School

Organic compounds (*5.1c*)
Organism (*KI 1 Intro*)
Organismal (*5.3a*)
Organizational levels (*1.2*)
Ovary (*4.1f*)
Overproduction of offspring (*KI 3 Intro*)
Oxygen (*5.1b*)
Ozone shield (*KI 7 Intro*)
Pancreas (*5.3b*)
Parasite (*5.2b*) (*6.1g*)
Parent (*KI 2 Intro*)
Pathogen (*KI 3 Intro*)
Pathogenic (*5.2c*)
Pattern of evolution (*3.1*)
Personal behavior (*5.2h*)
Pesticide (*KI 3 Intro*)
pH (*5.1f*)
Photosynthesis (*5.1a*)
Photosynthetic organism (*6.1a*)
Physical conditions (*6.1e*)
Physical traits (*KI 2 Intro*)
Placenta (*4.1f*)
Pollution (*KI 7 Intro*)
Population growth (*7.1c*)
Populations (*1.1*)
Predator (*6.1g*)
Pregnancy (*4.1f*)
Prey (*6.1g*)
Producer (*1.1a*) (*6.1g*)
Progesterone (*4.1e*)
Protein (*1.2h*)
Protein building (*1.2i*)
Radiation (*3.1d*)
Rate of water loss (*new edition to be released*)
Receptor (*1.2j*)
Recombination (*KI 2 Intro*)
Recombination of genes (*3.1c*)

Recycle (*6.1d*)
Regulatory (*KI 1 Intro*)
Renew (resources) (*7.1a*)
Replicate (*KI 2 Intro*)
Replication (*2.1*)
Reproduction (*KI 1 Intro*) (*1.2b*) (*KI 2 Intro*)
Reproductive cell (*3.1b*)
Reproductive cycle (*KI 3 Intro*)
Reproductive success (*3.1i*)
Reproductive technology (*KI 4 Intro*)
Resources (*1.1c*)
Respiration (*1.2b*)
Respiratory rate (*5.3b*)
Respond (*KI 5 Intro*)
Response to stimuli (*5.3a*)
Ribosome (*1.2i*)
Risks (*7.3a*)
Rock (*6.1e*)
Role (*6.2a*)
Scavenge (*6.1g*)
Segment of DNA (*2.2c*)
Selection (*KI 3 Intro*)
Selective breeding (*KI 2 Intro*)
Sex cells (*KI 3 Intro*)
Sexually reproducing (*2.1e*)
Shape of protein (*2.1i*)
Simple sugars (*1.2h*)
Societal actions (*7.3*)
Soil (*6.1e*)
Solar energy (*5.1b*)
Sorting of genes (*3.1c*)
Specialized (*1.2i*)
Species (*1.1b*)
Sperm (*2.1e*)
Stability (*KI 1 Intro*) (*1.1*)
Starch (*1.2h*)
Steady state (*KI 5 Intro*)

Structures (*1.2*)
Struggle for survival (*KI 3 Intro*)
Substituting DNA segment (*2.2d*)
Survival (*KI 3 Intro*)
Synthesis (*1.2h*)
Systems (*1.2*)
Technological development (*7.2*)
Technological fix (*KI 7 Intro*)
Technology (*7.1c*)
Temperature (*5.1f*)
Temperature range (*6.1e*)
Template (*2.1f*)
Testes (*4.1g*)
Testosterone (*4.1e*)
Tissues (*1.2*)
Total ecosystem (*1.1c*)
Toxic (*5.2h*)
Toxin (*4.1f*)
Trade-off (*7.3a*)
Trait (*2.1c*)
Transform (*5.1e*)
Transplanted (*5.2g*)
Transport (*1.2i*)
Unifying theme (*KI 3 Intro*)
Uterus (*4.1f*)
Vaccinations (*5.2e*)
Vacuole (*1.2i*)
Variations among offspring (*KI 3 Intro*)
Varieties (*KI 2 Intro*)
Viral disease (*5.2f*)
Virus (*5.2b*)
Water (*5.1b*)
Water cycle (*7.1b*)
White blood cells (*5.2c*)
Zygote (*KI 4 Intro*)

APPENDIX A - LABORATORY CHECKLIST

Assumptions
Chromatography
Compound microscope
Computer
Conclusion
Control group
Controlled experiment
Controlled variables
Data
Data table
Dependent variable
Dichotomous key

Electronic balance
Electrophoresis
Expressed data
Generalization
Graduated cylinder
Graph
Independent variable
Length
Limitations
Magnification
Mass
Metric

Molecule
Observations
Specimen
Specimens
Staining technique
Stereoscope
Temperature
Thermometer
Triple-beam balance
Volume
Wet-mount slide