

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 I

Bias (2.3c)
 Chance (3.2)
 Charts (3.1)
 Concepts (1.1b)
 Conclusion (3.3)
 Consensus (KI2 Intro)
 Conventional (KI 3I 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 (KI3 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 (1.1 b)
 Statistical analysis (3.2)
 Technologies (2.2)
 Theory (1.4)
 Values (1.1c)

STANDARD 4

A, G, C,T(2.If)
 Abiotic (KI 6 Intro)
 Active transport (1.2g)
 Adapted (KI 3 Intro)
 Adaptive characteristics (3.11)
 Adaptive value (KI 3 Intro)
 Aging (KI 4 Intro)
 AIDS (5.2f)
 Algae (6.1 a)
 Allele (new edition to be released)
 Allergic reactions (5.2g)
 Altered ecosystem (6.3c)
 Altered gene (2.1 h)
 Amino acids (1.2h)
 Antibiotic (KI 3 Intro)
 Antibody (5. 1g)
 Antigens (5.2c)
 Asexually reproducing (2.1d)
 Atmosphere (7.1 b)
 Atom (6.1b)
 ATP (5.1 d)
 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 (KI5 Intro) (5.1j)
 Biodiversity (6.2a)
 Biological catalysts (5.1f)

Biological evolution (3. 1a)
 Biosphere (6.1 b)
 Biotechnological methods (KI2 Intro)
 Biotic (1(16 Intro)
 Birth (1(14 Intro)
 Body cells (2.1k) (3.1d)
 Bonds (5.1c)
 Breakdown (5. 1f)
 Building blocks (1.2h)
 Cancer (5.2c)
 Cancerous cell (5.2j)
 Carbon (6.1 c)
 Carbon dioxide (5.1 b)
 Carnivore (6.1a)
 Carrying capacity (6. 1d)
 Cell membrane (1.2i)
 Cells (KI I Intro)
 Cellular (KI I Intro) (5.3a)
 Cellular communication (1.2j)
 Cellular respiration (5.1d)
 Chains (2.1 i)
 Change during lifetime (KI3 Intro)
 Characteristic (KI2 Intro)
 Chemical change (5.1j)
 Chemical composition (KI2 Intro) (7.2a)
 Chemical energy (5.1c)
 Chemical reaction (1.2h)
 Chemical signals (1.2g)
 Chlorophyll (new edition to be released)
 Chloroplasts (5.1 b)

Chromosomes (2.1c)
 Circulation (1.2b)
 Climatic change (6.3c)
 Cloning (4.1 b)
 Coded instructions (2.1 b)
 Combination of genes (3. 1 b)
 Combinations of traits (KI 2 Intro)
 Competition (KI6Intro)
 Complex organism (1.3)
 Components (KI 1 Intro)
 Compounds (1.2h)
 Consumer (I. 1a) (6.1g)
 Consumption (7.1c)
 Continuation (4.1 a)
 Continuity (KI2 Intro) (KI4 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 (KI5 Intro)
 Decomposer (1.1 a) (6.1 a)
 Deforestation (KI 7 Intro)
 Deleting DNA segment (2.2d)
 Development (KI4Intro)
 Deviations (1.2c) (KI 5 Intro)
 Diagnosing (5.2j)
 Differentiation (KI 4 Intro)
 Diffusion (1.2g)

Living Environment Vocabulary sorted alphabetically

Digestion (1.2b) (1.2h)
 Direct harvesting (7.1c)
 Disease (KI5Intro)
 Disturbance (6.3)
 Diversity (KI 1 Intro) (KI3 Intro)
 DNA (KI2 Intro)
 Dynamic equilibrium (KI5 Intro)
 Ecological community (6.3b)
 Ecological niche (KI6Intro)
 Ecological succession (6.3b)
 Ecology (KI6Intro)
 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 (KI5Intro)
 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 (KI4 Intro)
 Environmentally literate (KI 7 Intro)
 Enzyme (2.2c)
 Enzyme-controlled (KI5 Intro)
 Equilibrium (1.1e)
 Established ecosystem (1.1d)
 Estrogen (4.1e)
 Evolution (KI3 Intro)
 Evolutionary change (KI3 Intro)
 Excretion (1.2b)
 Expression (2.1a)
 External environment (KI5 Intro)
 Extinction (3.11)
 Fat (5.1c)
 Feedback mechanism (5.3b)
 Fertilization (3.1c) (KI4Intro)
 Fetus (4.1f)
 Finite resources (KI 7Intro)
 Flow of energy (KI 6 Intro)
 Food chain (KI 6Intro)
 Food web (KI 1 Intro) (KI6 Intro)

Fossil fuel (7.2c)
 Fossil record (3.1e)
 Function of protein (2.1i)
 Functions (1.2)
 Fungus(i) (5.2b)
 Gamete (KI4 Intro)
 Gene (KI2 Intro)
 Gene mutation (3.1d) (5.2i)
 Generation (2.1b) (7.3b)
 Genetic (KI 1 Intro)
 Genetic engineering (KI2 Intro)
 Genetic information (KI2 Intro) (2.1e)
 Genetic makeup (2.2)
 Genetic manipulation
 Genetic material (2.1)
 Genetic variability (3.1f)
 Genetically identical (2.1d) (KI4 Intro)
 Geological time (KI3 Intro)
 Global awareness (KI 7Intro)
 Global stability (7.1c)
 Global warming (KI 7Intro)
 Glucose (5.1b)
 Green plant (6.1a)
 Growth (KI4 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) (KI5 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 (KI2 Intro)
 Inheritable characteristic (3.1b)
 Inheritance (5.2h)
 Inherited (2.1a)
 Inorganic (1.2h)
 Insect (KI3 Intro)

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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 (KI5 Intro)
 Internal fertilization (4.1f)
 Interrelationship (6.3a)
 Kingdoms (KI2 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 (KI2 Intro)
 Mate (KI 6Intro)
 Mechanism of evolution (3.1)
 Meiosis (3.1c)
 Membrane (1.2g)
 Metabolic (KI1 Intro)
 Microbes (5.2e)
 Milk (4.1f)
 Mineral availability (6.1e)
 Minerals (6.1d)
 Mitochondria (1.2i) (5.1d)
 Mitosis (KI4Intro)
 Molecular bases (DNA) (2.1f)
 Molecular basis of heredity (KI2 Intro)
 Molecules (1.2g) (1.2i)
 Monitor (KI5 Intro)
 Movement (1.2b)
 Multicellular (KI 1 Intro) (1.3a)
 Mutation (KI2 Intro)
 Natural disaster (6.3c)
 Natural selection (KI3 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 (KI2 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

Organic compounds (5.1c)
 Organism (KI 1 Intro)
 Organismal (5.3a)
 Organizational levels (1.2)
 Ovary (4.1j)
 Overproduction of offspring (KI 3 Intro)
 Oxygen (5.1 b)
 Ozone shield (KI7Intro)
 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 (KI3 Intro)
 pH (5.1j)
 Photosynthesis (5. la)
 Photosynthetic organism (6. la)
 Physical conditions (6.1e)
 Physical traits (KI2 Intro)
 Placenta (4.1j)
 Pollution (KI 7 Intro)
 Population growth (7.1c)
 Populations (1.1)
 Predator (6.1g)
 Pregnancy (4.1j)
 Prey (6.1g)
 Producer (1. la) (6.1g)
 Progesterone (4. 1 e)
 Protein (1.2h)
 Protein building (1.2i)
 Radiation (3.1 d)
 Rate of water loss (new edition to be released)
 Receptor (1.2j)
 Recombination (KI2 Intro)
 Recombination of genes (3.1c)

Recycle (6. Id)
 Regulatory (KI 1 Intro)
 Renew (resources) (7. la)
 Replicate (KI2 Intro)
 Replication (2.1)
 Reproduction (KI 1 Intro) (1.2b) (KI2 Intro)
 Reproductive cell (3.1 b)
 Reproductive cycle (KI3 Intro)
 Reproductive success (3.1 i)
 Reproductive technology (KI4 Intro)
 Resources (1.1c)
 Respiration (1.2b)
 Respiratory rate (5.3b)
 Respond (KI5 Intro)
 Response to stimuli (5.3a)
 Ribosome (1.2i)
 Risks (7.3a)
 Rock (6.1 e)
 Role (6.2a)
 Scavenge (6.1g)
 Segment of DNA (2.2c)
 Selection (KI3 Intro)
 Selective breeding (KI2 Intro)
 Sex cells (KI3 Intro)
 Sexually reproducing (2. le)
 Shape of protein (2.1 i)
 Simple sugars (1.2h)
 Societal actions (7.3)
 Soil (6.1e)
 Solar energy (5.1 b)
 Sorting of genes (3.1 c)
 Specialized (1.2i)
 Species (1.1b)
 Sperm (2. le)
 Stability (KI 1 Intro) (1.1)
 Starch (1.2h)
 Steady state (KI 5 Intro)

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Structures (1.2)
 Struggle for survival (KI3 Intro)
 Substituting DNA segment (2.2d)
 Survival (KI3 Intro)
 Synthesis (1.2h)
 Systems (1.2)
 Technological development (7.2)
 Technological fix (KI 7 Intro)
 Technology (7.1c)
 Temperature (5.1j)
 Temperature range (6. 1 e)
 Template (2.1j)
 Testes (4.1g)
 Testosterone (4.1e)
 Tissues (1.2)
 Total ecosystem (1.1c)
 Toxic (5.2h)
 Toxin (4.1j)
 Trade-off(7.3a)
 Trait (2.1c)
 Transform (5.1e)
 Transplanted (5.2g)
 Transport (1.2i)
 Unifying theme (KI 3 Intro)
 Uterus (4.1j)
 Vaccinations (5.2e)
 Vacuole (1.2i)
 Variations among offspring (KI 3 Intro)
 Varieties (K! 2 Intro)
 Viral disease (5.2j)
 Virus (5.2b)
 Water (5.1 b)
 Water cycle (7.1b)
 White blood cells (5.2c)
 Zygote (KI4 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