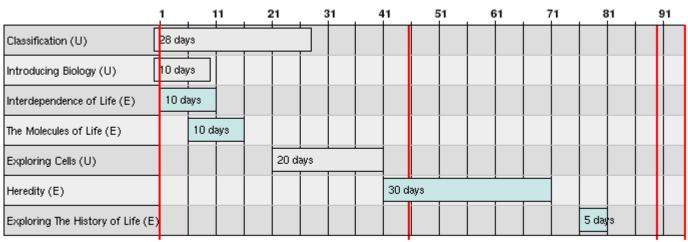
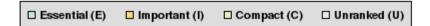
Folder: Science

Group/District: PENNSYLVANIA

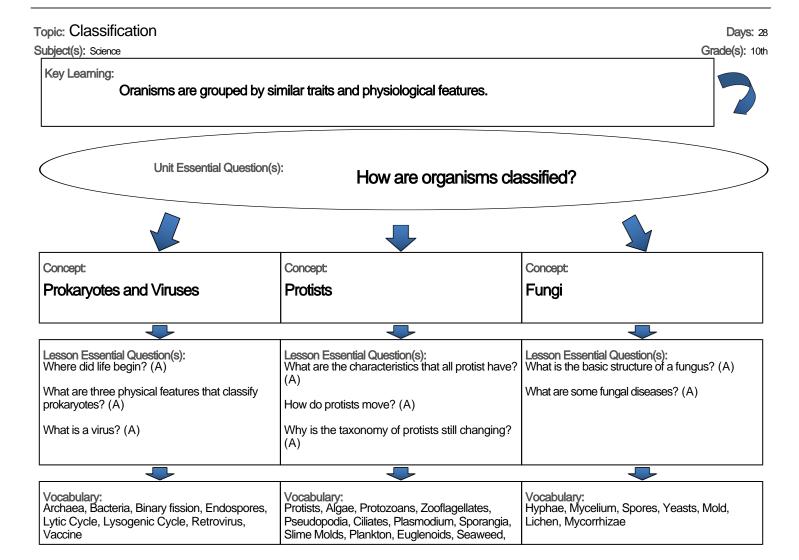






Curriculum: COLUMBIA BOROUGH SD Curriculum Course: Science - Biology (Student Learning Maps)

Teacher/Team Name: Ohrel



Curriculum: COLUMBIA BOROUGH SD Curriculum
Course: Science - Biology (Student Learning Maps)

Teacher/Team Name: Ohrel

Topic: Classification Days: 28 Subject(s): Science Grade(s): 10th Concept: Concept: Concept: Plant Diversity Invertebrate Diversity **Arthropods** Lesson Essential Question(s): What are the different types of invertebrates? Lesson Essential Question(s): Lesson Essential Question(s): What is plant diversity? (A) What are the general characteristics of an arthropod? (A) What structures aid in plant nutrition and support? (A) What are the four general characteristics of What are the main groups of arthropods? (A) animals? (A) What classifies a flowering plant? (A) How are vertebrate and invertebrates differnt? What are the major control systems in plants? (A) (A) Vocabulary: Vocabulary: Vocabulary: Cuticle, vascular tissue, Stomata, Gametophyte, Larva, Metamorphosis, Sponge, Sessile, Head, Thorax, Abdomen, Exoskeleton, Jointed Cnidarians, Polyp, Medusa, Symmetry, Sporophyte, Gymnosperms, Angiosperms, Appendages, Crustaceans, Arachnids, Insects, Pollen, Seeds, Flower, Fruit, Carpal, Stamen, Mollusks, Worms, Echinoderms Molting, Metamorphosis, Entomology Xylem, Phloem, Cortex, Transpiration, Phototropism, Thigmotropism, Gravitropism Concept: Concept Concept Fishes and Amphibians **Mammals** Reptiles and Birds Lesson Essential Question(s): Lesson Essential Question(s): Lesson Essential Question(s): What is a chordate? (A) What are the main groups of vertebrates? (A) What are the three main characteristics of What are the general characteristics of amniotes? (A) mammamls? (A) What makes sharks different from bony fish? (A) What are the general characteristics of reptiles? What is the most widely accepted hypothesis for the origin of mammals? (A) What are the three groups of modern reptiles? What are the characteristics of the three main (A) groups of mammals? (A) (A) Vocabulary: Vocabulary: Vocabulary: Operculum, Swim bladder, Cartilaginous fish, Amniote, Ectotherm, Endotherm, Scale, Mammal, Monotreme, Marsupial, Placental Bony Fish, Lateral Line Amniotic Egg Mammal Additional Information: Attached Document(s):

Course: Science - Biology (Student Learning Maps)

Teacher/Team Name: Ohrel

PENNSYLVANIA Date: January 23, 2014 ET

Vocab Report for Topic: Classification

Subject(s): Science

Days: 28 Grade(s): 10th

Concept:

Prokaryotes and Viruses

Archaea -

Bacteria -

Binary fission -

Endospores -

Lytic Cycle -

Lysogenic Cycle -

Retrovirus -

Vaccine -

Concept:

Protists

Protists -

Algae -

Protozoans -

Zooflagellates -

Pseudopodia -

Ciliates -

Plasmodium -

Sporangia -

Slime Molds -

Plankton -

Euglenoids -

Seaweed -

-

Concept:

Fungi

Hyphae -

Mycelium -

Spores -

Yeasts -

Mold -

Lichen -

Mycorrhizae -

Concept:

Plant Diversity

Curriculum: COLUMBIA BOROUGH SD Curriculum Course: Science - Biology (Student Learning Maps)

Teacher/Team Name: Ohrel

Vocab Report for Topic: Classification

Days: 28

Grade(s): 10th

Subject(s): Science

Cuticle -

vascular tissue -

Stomata -

Gametophyte -

Sporophyte -

Gymnosperms -

Angiosperms -

Pollen -

Seeds -

Flower -

Fruit -

Carpal -

Stamen -

Xylem -

Phloem -

Cortex -

Transpiration -

Phototropism -

Thigmotropism -

Gravitropism -

Concept:

Invertebrate Diversity

Larva -

Metamorphosis -

Sponge -

Sessile -

Cnidarians -

Polyp -

Medusa -

Symmetry -

Mollusks -

Worms -

Echinoderms -

Concept:

Arthropods

Head -

Thorax -

Abdomen -

Exoskeleton -

Jointed Appendages -

Crustaceans -

Arachnids -

Insects -

Molting -

Course: Science - Biology (Student Learning Maps)

Teacher/Team Name: Ohrel

PENNSYLVANIA Date: January 23, 2014 ET

Vocab Report for Topic: Classification

Subject(s): Science

Days: 28 Grade(s): 10th

Metamorphosis -Entomology -

Concept:

Fishes and Amphibians

Operculum -Swim bladder -Cartilaginous fish -Bony Fish -Lateral Line -

Concept:

Reptiles and Birds

Amniote -Ectotherm -Endotherm -Scale -Amniotic Egg -

Concept:

Mammals

Mammal -Monotreme -Marsupial -Placental Mammal -

Curriculum: COLUMBIA BOROUGH SD Curriculum

Course: Science - Biology (Student Learning Maps)

Topic: Exploring Cells

Subject(s): Science

Days: 20 Grade(s): 10th

Key Learning: Cell structure and function relate to the capture, storage, and transfer of energy in systems.



Unit Essential Question(s): How do cell structure and function relate to the capture, storage, and transfer of energy in systems?







Concept:

Cellular Energy

functions.? (A)

3.1.10.A, 3.1.10.B, 3.1.10.C, 3.1.10.E, 3.2.10.A, 3.2.10.B, 3.2.10.C, 3.3.10.B, S11.B.1.1.1, S11.B.1.1.2, S11.B.1.1.3

Concept:

The Cell's Environment, Homeostasis, and Transport

3.1.10.A, 3.1.10.B, 3.1.10.C, 3.1.10.E, 3.2.10.A, 3.2.10.B, 3.2.10.C, 3.3.10.B, S11.B.1.1.1, S11.B.1.1.2, S11.B.1.1.3

Concept:

Types of Cells, Organelles, and Their Functions

3.1.10.A, 3.1.10.B, 3.1.10.C, 3.1.10.E, 3.2.10.A, 3.2.10.B, 3.2.10.C, 3.3.10.B, S11.B.1.1.1, S11.B.1.1.2



Lesson Essential Question(s): How is energy transferred at a molecular level within a cell and how do the structures that handle these molecules carry out their

How are photosynthesis and respiration complementary? (A)

How are photosynthetic organisms able to trap energy and convert it into a form useful for cellular activities? (A) Lesson Essential Question(s): How is the transport of materials through the cell membrane used to maintain homeostasis? (A)

Lesson Essential Question(s): What are the basic differences and similarities between plant and animal cells? (A)

Why is cell specialization important to multicellular organisms? (A)



Vocabulary:
Photosynthesis, Cellular respiration,
Mitochondria, Chloroplast, Aerobic respiration,
Anaerobic respiration, Fermentation, ATP/ADP,
Calvin cycle, Kreb cycle, Glycolysis, Electron
transport chain, Photosystem, Metabolism,
Thylacoid, Light Reactions, Dark Reactions,
Wavelength, Pigments,

Vocabulary:

Osmosis, Diffusion, Active transport, Passive transport, Hypotonic solution, Isotonic solution, Hypertonic solution, Equilibrium, Selectively Permeable Membrane

Vocabulary:
Cell organelles, Cell theory, Cytoplasm, Cell
Wall, Plasma Membrane, Prokaryotic Cell,
Eukaryotic Cell, Nucleus, Phospholipid Bilayer,
Nuclear membrane, Nucleolus, Ribosomes,
Endoplasmic Reticulum, Golgi Bodies,
Vacuoles, Lysosomes, Chloroplast,
Mitochondria, ATP

Topic: Exploring Cells

Days: 20 Subject(s): Science Grade(s): 10th

Concept: Concept: Concept: The Chemical Basis of Life Cell Reproduction 3.1.10.A, 3.1.10.B, 3.1.10.C, 3.1.10.E, 3.2.10.A, 3.2.10.B, 3.2.10.C, 3.3.10.A, 3.3.10.B, S11.B.1.1.1, S11.B.1.1.2, S11.B. 1.1.3, S11.B.2.2.2 Lesson Essential Question(s): Lesson Essential Question(s): Lesson Essential Question(s): What are the similarities and differences What is the structure of an atom and how are between mitosis and meiosis? (A) they bonded together? (A) How do the phases of the cell cycle relate to cell What are the most common elelents in living things? (A) division? (A) How does the alignment of chromosomes lead How does life depend on the unique qualities of to genetic variability during meiosis? (A) water? (A) Vocabulary: Vocabulary: Vocabulary: Stages of mitois, Stages of meiosis, Cell cycle, Matter, Element, Compound, Atom, Proton, Chromosomes, Homologous pairs, Chromatin, Neutron, Nucleus, Atomic Number, Isotope, , Crossing over, Chromatid, Centromere, Asexual Ionic Bond, Ion, Covalent Bond, Molecule, Reproduction, Sexual Reproduction, Spindle, Chemical Reaction, Reactant, Product, Polar Benign Tumor, Malignant Tumors, Molecules, Hydrogen Bond, Cohesion, Homologous Chromosomes, Karyotype, Sex Adhesion, Solution, Solvent, Solute, Chromosomes, Diploid, Haploid, Gametes, Fertilization, Zygote, Crossing Over,

Additional Information:

PENNSYLVANIA
Date: January 23, 2014 ET

Days: 20

Vocab Report for Topic: Exploring Cells

Subject(s): Science Grade(s): 10th

Concept: Cellular Energy

Photosynthesis -

Cellular respiration -

Mitochondria -

Chloroplast -

Aerobic respiration -

Anaerobic respiration -

Fermentation -

ATP/ADP -

Calvin cycle -

Kreb cycle -

Glycolysis -

Electron transport chain -

Photosystem -

Metabolism -

Thylacoid -

Light Reactions -

Dark Reactions -

Wavelength -

Pigments -

-

Concept: The Cell's Environment, Homeostasis, and Transport

Osmosis -

Diffusion -

Active transport -

Passive transport -

Hypotonic solution -

Isotonic solution -

Hypertonic solution -

Equilibrium -

Selectively Permeable Membrane -

Concept: Types of Cells, Organelles, and Their Functions

Cell organelles -

Cell theory -

Cytoplasm -

Cell Wall -

Plasma Membrane -

Prokaryotic Cell -

Eukaryotic Cell -

Nucleus -

Phospholipid Bilayer -

Nuclear membrane -

Vocab Report for Topic: Exploring Cells

Subject(s): Science

Days: 20 Grade(s): 10th

Nucleolus -

Ribosomes -

Endoplasmic Reticulum -

Golgi Bodies -

Vacuoles -

Lysosomes -

Chloroplast -

Mitochondria -

ATP -

Concept: Cell Reproduction

Stages of mitois -

Stages of meiosis -

Cell cycle -

Chromosomes -

Homologous pairs -

Chromatin -

Crossing over -

Chromatid -

Centromere -

Asexual Reproduction -

Sexual Reproduction -

Spindle -

Benign Tumor -

Malignant Tumors -

Homologous Chromosomes -

Karyotype -

Sex Chromosomes -

Diploid -

Haploid -

Gametes -

Fertilization -

Zygote -

Crossing Over -

-

Concept:

The Chemical Basis of Life

Matter -

Element -

Compound -

Atom -

Proton -

Neutron -

Nucleus -

Atomic Number -

Isotope -

PENNSYLVANIA Date: January 23, 2014 ET

Vocab Report for Topic: Exploring Cells Subject(s): Science

Days: 20 Grade(s): 10th

-

Ionic Bond -

lon -

Covalent Bond -

Molecule -

Chemical Reaction -

Reactant -

Product -

Polar Molecules -

Hydrogen Bond -

Cohesion -

Adhesion -

Solution -

Solvent -

Solute -

_

Course: Science - Biology (Student Learning Maps)

Date: January 23, 2014 ET

Topic: Exploring The History of Life

Subject(s): Science

Days: 5 Grade(s): 10th

Key Learning: Classification is used to show the diversity of organisms and the relationships between them. Unit Essential Question(s): Why and how are organisms classified? Concept: Concept: Concept: **Evolutionary Classification** 6 Kingdom Classification **Biodiversity** 3.1.10.A, 3.1.10.B, 3.1.10.C, 3.2.10.A, 3.2.10.B, 3.3.10.A, 3.1.10.A, 3.1.10.B, 3.1.10.C, 3.2.10.A, 3.2.10.B, 3.3.10.A, 3.1.10.A, 3.1.10.B, 3.1.10.C, 3.2.10.A, 3.2.10.B, 3.3.10.A, 3.3.10.B, S11.B.1.1.1, S11.B.1.1.2 3.3.10.B, S11.B.1.1.1, S11.B.1.1.2 3.3.10.B, S11.B.1.1.1, S11.B.1.1.2 Lesson Essential Question(s): What criteria are used to classify organisms? Lesson Essential Question(s): Lesson Essential Question(s): How does phylogeny relate to classification? What role does the classification of organisms play in the study of biodiversity? (A) Vocabulary: Biodiversity, Species, Endemic, Island Vocabulary: Hierarchy of Classification, Prokaryote, Vocabulary: Dichotomous key, Binomial nomenclature, biogeography Phylogeny, Taxonomy, Phylogenetic tree Eukaryote, Species, Taxon, Extinction

Additional Information:

PENNSYLVANIA

Date: January 23, 2014 ET

Vocab Report for Topic: Exploring The History of Life Subject(s): Science

Days: 5 Grade(s): 10th

Concept: Evolutionary Classification

Dichotomous key -Binomial nomenclature -Phylogeny -Taxonomy -Phylogenetic tree -

Concept: 6 Kingdom Classification

Hierarchy of Classification -Prokaryote -Eukaryote -Species -Taxon -Extinction -

Concept: Biodiversity

Biodiversity -Species -Endemic -Island biogeography -

Date: January 23, 2014 ET

Topic: Heredity Subject(s): Science

Days: 30 Grade(s): 10th

Key Learning: Biological traits are passed on to successive generations.



Unit Essential Question(s):

How are traits passed from generation to generation?







Concept:

DNA and the Language of Life

3.1.10.A, 3.1.10.B, 3.1.10.C, 3.2.10.B, 3.2.10.C, 3.3.10.C, S11.B. 1.1.1, S11.B.1.1.2, S11.B.1.1.3, S11.B.2.1.2, S11.B.2.2.1

Concept:

RNA - Protein Synthesis

3.1.10.A, 3.1.10.B, 3.1.10.C, 3.1.10.E, 3.2.10.A, 3.2.10.C, 3.3.10.B, 3.3.10.C, S11.B.1.1.1, S11.B.1.1.2, S11.B.1.1.3, S11.B. 2.1.2, S11.B.2.2.1

Concept:

Patterns of Inheritance

3.1.10.A, 3.1.10.B, 3.1.10.C, 3.1.10.E, 3.2.10.A, 3.2.10.B, 3.2.10.C, 3.3.10.B, 3.3.10.C, S11.B.1.1.1, S11.B.1.1.2, S11.B. 1.1.3, S11.B.2.1.2, S11.B.2.1.3, S11.B.2.2.3, S11.B.3.3.3



Lesson Essential Question(s): How does the structure of DNA code for traits?

What are the building blocks of DNA? (A)

What are the rules for base pairing? (A)

Lesson Essential Question(s): What is protein synthesis? (A)

What ia a gene mutation? (A)

How are amino acids coded? (A)

Lesson Essential Question(s):

How are inherited traits passed on from parent to offspring? (A)

How do Mendel\'s laws explain the role of meiosis in reproductive variability? (A)

Vocabulary:

DNA, Genetic code, Codon, Nucleotide, Replication, Nitrogenous bases, Phosphate group, 5-Carbon sugar, Double helix, Gene, Allele, Chromosome, RNA, Pyrimidines, Purines,

Vocabulary

RNA, mRNA, tRNA, rRNA, anticodon, transcription, translation, ribosome, Introns,

Vocabulary:

Allele, Gene, Heredity, Monohybrid, Dihybrid, Genotype, Phenotype, Homozygous, Heterozygous, Dominant, Recessive, Probability, Punnett Square, Hybrid

Curriculum: COLUMBIA BOROUGH SD Curriculum

Course: Science - Biology (Student Learning Maps)

Topic: Heredity

Days: 30 Subject(s): Science Grade(s): 10th

Concept:	Concept:
Frontiers in Genetics	Variations in Inheritance Patterns
3.1.10.A, 3.1.10.B, 3.1.10.C, 3.1.10.E, 3.2.10.A, 3.2.10.B, 3.2.10.C, 3.6.10.A, 3.8.10.A, 3.8.10.B, 3.8.10.C, S11.B.2.1.3, S11.B.3.3.3	
Lesson Essential Question(s): How is DNA technology applied and used in our society today? (A) What are the procedures used in cloning? (A)	Lesson Essential Question(s): What are multiple alleles? (Å) Explain how alleles interact in intermediate inheritance? (A) How does polygenic inheritance result in a wide range of phenotypes? (A) How are phenotypes affected by environmental conditions? (A)
•	
Vocabulary: Recombinant DNA, Gel electrophoresis, Restriction enzyme, Cloning, Biotechnology, Plasmid, Gel Electrophoresis, Genetic Marker, DNA Fingerprinting, Stem Cells	Vocabulary: Intermediate Inheritance, Codominace, Polygenic Inheritance, , Sex-linked Gene,
	Frontiers in Genetics 3.1.10.A, 3.1.10.B, 3.1.10.C, 3.1.10.E, 3.2.10.A, 3.2.10.B, 3.2.10.C, 3.6.10.A, 3.8.10.A, 3.8.10.B, 3.8.10.C, S11.B.2.1.3, S11.B.3.3.3 Lesson Essential Question(s): How is DNA technology applied and used in our society today? (A) What are the procedures used in cloning? (A) Vocabulary: Recombinant DNA, Gel electrophoresis, Restriction enzyme, Cloning, Biotechnology, Plasmid, Gel Electrophoresis, Genetic Marker,

Additional Information:

Vocab Report for Topic: Heredity Subject(s): Science

Days: 30 Grade(s): 10th

Concept:

DNA and the Language of Life

DNA -

Genetic code -

Codon -

Nucleotide -

Replication -

Nitrogenous bases -

Phosphate group -

5-Carbon sugar -

Double helix -

Gene -

Allele -

Chromosome -

RNA -

Pyrimidines -

Purines -

-

Concept: RNA - Protein Synthesis

RNA -

mRNA -

tRNA -

rRNA -

anticodon -

transcription -

translation -

ribosome -

Introns -

Exons -

Concept:

Patterns of Inheritance

Allele -

Gene -

Heredity -

Monohybrid -

Dihybrid -

Genotype -

Phenotype -

Homozygous -

Heterozygous -

Dominant -

Recessive -

Vocab Report for Topic: Heredity Subject(s): Science

Days: 30 Grade(s): 10th

Probability -Punnett Square -Hybrid -

Concept:

Human Genetics

Substitution -Chromosomal errors -Genome -Nondysjunction -Translocation -Deletion -Inversion -

Pedigree -

Carrier -

Concept:

Frontiers in Genetics

Recombinant DNA -

Gel electrophoresis -

Restriction enzyme -

Cloning -

Biotechnology -

Plasmid -

Gel Electrophoresis -

Genetic Marker -

DNA Fingerprinting -

Stem Cells -

Concept:

Variations in Inheritance Patterns

Intermediate Inheritance -

Codominace -

Polygenic Inheritance -

Sex-linked Gene -

Date: January 23, 2014 ET

Topic: Interdependence of Life

Subject(s): Science Grade(s): 10th

Key Learning:

All living things are interdependent with each other and the nonliving environment.



Days: 10

Unit Essential Question(s): What relationships exist between living things and their environment?







Concept:

Population Ecology

3.1.10.A, 3.1.10.B, 3.1.10.C, 3.2.10.C, 4.6.10.B, 4.7.10.B, 4.7.10.C, S11.B.3.1.2, S11.B.3.1.3, S11.B.3.1.5, S11.B.3.2.1, S11.B.3.2.2, S11.B.3.2.3

Concept:

Ecosystems and Conservation Biology

3.1.10.A, 3.1.10.B, 3.1.10.C, 3.2.10.C, 4.6.10.B, S11.B.3.1.2, S11.B.3.2.1, S11.B.3.2.3

Concept:

The Biosphere

Lesson Essential Question(s): What causes populations to fluctuate? (A)

What are the general patterns of fluctuation? (A)

How do limiting factors relate to the carrying capacity of a population? (A)

Lesson Essential Question(s): How do matter and energy travel through the community? (A)

How does biodiversity impact the stability within the ecosystem? (A)

Lesson Essential Question(s): What are the five levels of ecological studies?

How does climate determine global patterns in the biosphere? (A)

What are the key abiotic factors? (A)

Vocabulary: S Curve, J Curve, Limiting factor, Carrying capacity, Exponential growth, Population Density, Niche, Predation Vocabulary:

Carbon cycle, Nitrogen cycle, Water cycle, Phosphorous cycle, Producer, Consumer, Decomposer, Food Chain, Herbivore, Carnivore, Omnivore, Biomass, Energy Pyramid, Deforestation, Greenhouse Effect, Pollution, Ozone, Biodiversity Vocabulary:

Ecology, Abiotic Factors, Biotic Factors, Population, Community, Ecosystem, Biosphere, Habitat, Biomes,

Additional Information:

PENNSYLVANIA

Date: January 23, 2014 ET

Vocab Report for Topic: Interdependence of Life Subject(s): Science

Days: 10 Grade(s): 10th

Concept: Population Ecology

S Curve -

J Curve -

Limiting factor -

Carrying capacity -

Exponential growth -

Population Density -

Niche -

Predation -

Concept:

Ecosystems and Conservation Biology

Carbon cycle -

Nitrogen cycle -

Water cycle -

Phosphorous cycle -

Producer -

Consumer -

Decomposer -

Food Chain -

Herbivore -

Carnivore -

Omnivore -

Biomass -

Energy Pyramid -

Deforestation -

Greenhouse Effect -

Pollution -

Ozone -

Biodiversity -

Concept:

The Biosphere

Ecology -

Abiotic Factors -

Biotic Factors -

Population -

Community -

Ecosystem -

Biosphere -

Habitat -

PENNSYLVANIA

Date: January 23, 2014 ET

Vocab Report for Topic: Interdependence of Life Subject(s): Science

Days: 10 Grade(s): 10th

Biomes -

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Course: Science - Biology (Student Learning Maps) Date: January 23, 2014 ET

Topic: Introducing Biology

Subject(s): Science

Days: 10 Grade(s): 10th

PENNSYLVANIA

Key Learning:

Biology explores life from the global to the microscopic scale.



Unit Essential Question(s):

What are the major organizational levels of life?







Concept:

The Scope of Biology

3.1.10.A, 3.1.10.B, 3.2.10.D, 3.3.10.D

Concept:

The Science of Biology

3.2.10.D, 3.3.10.A, 3.3.10.D

Concept:

The Process of Science

3.1.10.A, 3.1.10.C, 3.3.10.A, 3.3.10.D

Lesson Essential Question(s): What are the major organizational levels of life?

(A)

What is diversity? (A)

What are the ten themes of biology? (A)

Lesson Essential Question(s): What is scientific inquiry? (A)

What are the steps of the scientific method? (A)

How are scientific models used in understanding ideas? (A)

Lesson Essential Question(s): How do scientist study behavior through observation and experiment? (A)

Vocabulary: Biosphere, Ecosystem, Organism, Cell, DNA, Gene, Species, Unicellular, Multicellular, System, Photosynthesis, Producer, Consumer, Homeostasis, Adaptation, Population, Natural Selection, Evolution

Observation, Data, Generalization, Variable, Controlled Experiment, Evidence, Theory, Models, Technology, Hypothesis, Conclusion,

Control

Animal Behavior, Immediate Cause, Innate Behavior, Learning, Habituataion, Imprinting, Conditioning, Insight, Territory,

Communication, Cooperation

Additional Information:

PENNSYLVANIA

Date: January 23, 2014 ET

Days: 10

Vocab Report for Topic: Introducing Biology

Subject(s): Science Grade(s): 10th

Concept:

The Scope of Biology

Biosphere -

Ecosystem -

Organism -

Cell -

DNA -

Gene -

Species -

Unicellular -

Multicellular -

System -

Photosynthesis -

Producer -

Consumer -

Homeostasis -

Adaptation -

Population -

Natural Selection -

Evolution -

Concept:

The Science of Biology

Observation -

Data -

Generalization -

Variable -

Controlled Experiment -

Evidence -

Theory -

Models -

Technology -

Hypothesis -

Conclusion -

Control -

Concept:

The Process of Science

Animal Behavior -

Immediate Cause -

Innate Behavior -

Learning -

Habituataion -

PENNSYLVANIA

Date: January 23, 2014 ET

Vocab Report for Topic: Introducing Biology Subject(s): Science

Days: 10 Grade(s): 10th

Imprinting -Conditioning -Insight -Territory -Communication -Cooperation -

Date: January 23, 2014 ET

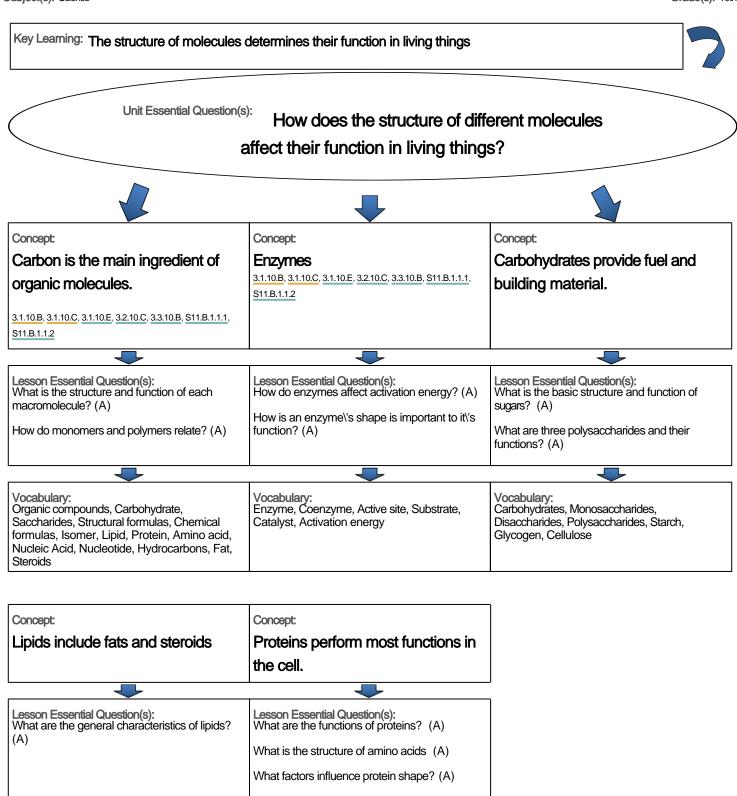


Vocabulary: Lipid, Fat, Hydrophobic, Saturated Fat,

Unsaturated Fat, Steroid, Cholesterol

Subject(s): Science

Days: 10 Grade(s): 10th



Protein, Amino Acid, Polypeptide, Denaturation

PENNSYLVANIA

Date: January 23, 2014 ET

Topic: The Molecules of Life

Days: 10

Subject(s): Science

Grade(s): 10th

Additional Information:

PENNSYLVANIA

Date: January 23, 2014 ET

Vocab Report for Topic: The Molecules of Life

Subject(s): Science

Days: 10 Grade(s): 10th

Concept:

Carbon is the main ingredient of organic molecules.

Organic compounds -

Carbohydrate -

Saccharides -

Structural formulas -

Chemical formulas -

Isomer -

Lipid -

Protein -

Amino acid -

Nucleic Acid -

Nucleotide -

Hydrocarbons -

Fat -

Steroids -

Concept: Enzymes

Enzyme -

Coenzyme -

Active site -

Substrate -

Catalyst -

Activation energy -

Concept: Carbohydrates provide fuel and building material.

Carbohydrates -

Monosaccharides -

Disaccharides -

Polysaccharides -

Starch -

Glycogen -

Cellulose -

Concept: Lipids include fats and steroids

Lipid -

Fat -

Hydrophobic -

Saturated Fat -

Unsaturated Fat -

Steroid -

Cholesterol -

PENNSYLVANIA

Date: January 23, 2014 ET

 $\label{thm:local-problem} \mbox{Vocab Report for Topic: The Molecules of Life}$

Subject(s): Science

Grade(s): 10th

Days: 10

Concept: Proteins perform most functions in the cell.

Protein -

Amino Acid -

Polypeptide -

Denaturation -