Biology

Science

Grade(s) 10th, Duration 1 Year, 1 Credit
Required Course

Course Overview

This course is designed for students who need a basic understanding of biological topics. Units of study include scientific methods of investigation, basic chemistry concepts, ecology, cells, genetics and heredity, evolution and grouping of organisms. Coursework is supplemented by textbook and current journal readings and lab activities. All students will submit a group experiment to be presented in class in the fall. Students will follow along coursework with a science inquiry packet that includes lab work. A variety of assessments will be offered from tests, quizzes, and projects. The Missouri End of Course Assessment applies to biology.

Scope And Sequence

Timeframe	Unit	Instructional Topics
15 Day(s)	Introduction to Biology Concepts	1. Characteristics of Life 2. Scientific Method with Claim, Evidence & Reasoning 3. Experiment & Variables 4. Graphing 5. Lab Equipment 6. Metric Measurement
10 Day(s)	Molecules for Life	1. Structure of Matter 2. Structure and function of organic molecules
20 Day(s)	Organization of Life and Homeostasis	1. Organization of Atom to Organism with Specialization of Cells 2. Cell Structure & Function 3. Human Body Systems 4. Homeostatic Process of Positive & Negative Feedback
22 Day(s)	Cellular Reactions	1. Differentiation between Prokaryotic & Eukaryotic Cells with Organelles 2. ATP for Autotrophs & Heterotrophs 3. Rates of Photosynthesis with Chloroplast 4. Functions of Anaerobic & Aerobic Respiration with Mitochondria 5. Dynamics of Cell Transport
15 Day(s)	Function of DNA & Protein Synthesis in Relation to Cell Organelles	1. DNA Structure in the Nucleus & Replication 2. RNA Structure & Replication Process 3. RNA Protein Synthesis Process 4. The role of enzymes in chemical reactions
25 Day(s)	Cell Division with Genetic Inheritance & Variation of Traits	1. Role of DNA & chromosomes 2. Mitosis with Cell Repair & Specialization 3. Meiosis for Variation 4. Embryology 5. Gene Expression 6. Role of Meiosis in Variation (Mendel Principles) 7. Genetic Mutations & Disorders 8. Biotechnology
30 Day(s)	Flow of Matter & Energy with Community Interactions	1. Food Chains, Food Webs & Biomass Pyramids 2. Carbon Flow through Ecosystem 3. Connection of carbon & oxygen flow in ecosystem 4. Biogeochemical Cycle- Water 5. Biogeochemical Cycle- Nitrogen & Phosphorus 6. Symbiotic Relationships 7. Coral Reef interaction with marine life 8. Biomes
8 Day(s)	Changes in Ecosystems with Human Dependence on Earth & Interactions	1. Population Ecology 2. Growth of human population on ecosystems 3. Human activities impact on Earth
10 Day(s)	Earth's History & Formation	1. Plate Tectonics & Law of Superposition 2. Differences in oceanic rocks (include meteorites) 3. Carbon 14 Dating 4. Biogeography
10 Day(s)	Common Ancestry & Natural Selection	1. Fossil Record 2. Patterns of Evolution 3. Reproductive Isolations 4. Adaptive Radiation
10 Day(s)	Biodiversity	1. Taxonomy & Binomial Nomenclature 2. Kingdoms & Characteristics 3. Dissections

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Prerequisites

9th Grade Physical Science

Course Details

Unit: Introduction to Biology Concepts

Duration: 15 Day(s)

Unit Description

Students will deepen their basic understanding of biology and decide what characteristics of life apply to living and nonliving entities. During this unit, students will review the use and safety of lab equipment to conduct experiments.

Academic Vocabulary

observation
hypothesis
experiment
independent variable
dependent variable
control
constant
data
conclusion
theory
scientific law
DNA
stimulus
asexual reproduction
sexual reproduction
homeostasis
metabolism
unicellular
multicellular
natural selection
evolution

Topic: Characteristics of Life

Duration: 3 Day(s)

Topic Description (short)

Using scientific inquiry methods, the following characteristics of life will be discussed: cells, DNA, reproduction, growth & development, energy, homeostasis, response to stimuli and adaptations.

Learning Targets

List the characteristics of living things.

Apply characteristics of life to a living versus nonliving item using claim, evidence and reasoning.

Learning Targets linked to Priority Standard = ✣

Topic: Scientific Method with Claim, Evidence & Reasoning

Duration: 2 Day(s)

Learning Targets

Students will implement an activity that relates to the human body addressing functions of a system and evaluate the response to stimulus using Claim, Evidence & Reasoning.

Learning Targets linked to Priority Standard = ✣

Topic: Experiment & Variables

Duration: 3 Day(s)

Learning Targets

Review experiments and scenarios to identify the independent and dependent variables along with control and constant.

Learning Targets linked to Priority Standard = ✣

Topic: Graphing

Duration: 2 Day(s)

Learning Targets

Students will demonstrate graphing skills based on experiments to analyze data.

Learning Targets linked to Priority Standard = ✣

Topic: Lab Equipment

Duration: 2 Day(s)

Learning Targets

Students will participate in lab activities that model how to use lab equipment.

Biology

Science

Grade(s) 10th, Duration 1 Year, 1 Credit
Required Course
Learning Targets linked to Priority Standard = ✠

Topic: Metric Measurement **Duration:** 3 Day(s)

Learning Targets

Students will measure and calculate distance, weight, temperature, etc. and convert numbers using SI for labs.

Learning Targets linked to Priority Standard = ✠

Unit: Molecules for Life

Duration: 10 Day(s)

Unit Description

Students will demonstrate how atomic structure effect the makeup of macromolecules and enzymatic reactions. A section will be spent on water properties and how this molecule interacts with living things.

Academic Vocabulary

atom
nucleus
electron
proton
neutron
element
isotope
compound
ionic bond
covalent bond
molecule
cohesion
adhesion
mixture
solution
solute
solvent
pH scale
acid
base
buffer
monomer
polymer
carbohydrate
monosaccharide
glucose
sucrose
starch
lipid
fatty acid
triglyceride
saturated
unsaturated
steroid
hormone
phospholipid
protein
amino acid
peptide
dipeptide
enzyme
activation energy
nucleic acid
nucleotide
DNA
RNA

Topic: Structure of Matter **Duration:** 4 Day(s)

Learning Targets

Students will describe the various states of matter with solid, liquid, gas and plasma.
Students will use the periodic table to determine subatomic properties and structure for an atom.
Students will relate to the properties of water focusing on bonds and pH for chemical reactions.

Biology

Science

Grade(s) 10th, Duration 1 Year, 1 Credit
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Learning Targets linked to Priority Standard = ✙

Topic: Structure and function of organic molecules **Duration:** 6 Day(s)

Learning Targets

Students will identify monomers and polymers of organic macromolecules.
Students will create macromolecules using atomic models and differentiate between structure and function of carbohydrates, lipids, proteins and nucleic acids.
Students will conduct an activity to demonstrate enzymes as catalyst and relate to the process of cell respiration.

Learning Targets linked to Priority Standard = ✙

Unit: Organization of Life and Homeostasis

Duration: 20 Day(s)

Unit Description

Life is broken into various sections from being general to very specific. This unit will differentiate between types of kingdoms and how organisms vary from single to multicell organisms. In addition, each living thing has to respond to stimuli and maintain an internal balance known as homeostasis.

Academic Vocabulary

Atom
Unicellular
Multicellular
Cells
Tissue
Organ
Organ System
Nervous System
Muscular System
Circulatory System
Skeletal System
Respiratory System
Digestive System
Excretory System
Organism
Population
Community
Ecosystem
Biosphere
Homeostasis
Negative & Positive Feedback
Claim
Evidence
Reasoning
Observation
Hypothesis
Experiment
Control
Constant
Independent & Dependent Variables
Data
Conclusion
Bias
Scientific Law
Theory
Observation

Topic: Organization of Atom to Organism with Specialization of Cells **Duration:** 3 Day(s)

Learning Targets

Students will familiarize with hierarchy of life from atom to whole organism.

Learning Targets linked to Priority Standard = ✙

Topic: Cell Structure & Function **Duration:** 1 Day(s)

Learning Targets

Students will differentiate between basic cell types of Bacteria, Protist, Fungi, Plant and Animals.

Learning Targets linked to Priority Standard = ✙

Biology

Science

Grade(s) 10th, Duration 1 Year, 1 Credit
Required Course

Topic: Human Body Systems **Duration:** 2 Day(s)

Learning Targets

Students will conduct simple activities and discuss each of the human body systems (circulatory, respiratory, digestive, urinary, nervous, skeletal, muscular, immune and reproductive system).

Learning Targets linked to Priority Standard = ✠

Topic: Homeostatic Process of Positive & Negative Feedback **Duration:** 5 Day(s)

Topic Description (short)

Students will create and implement an experiment that investigates positive and negative feedback that deals with the human body pertaining to heart rate, respiration rate, integumentary and nervous system.

Learning Targets

Design, implement and analyze data to determine how human body responds with negative and postive feedback for homeostasis.

Learning Targets linked to Priority Standard = ✠

Unit: Cellular Reactions

Duration: 22 Day(s)

Unit Description

Students will distinguish between prokaryotic and eukaryotic cell structure and functions. These sections include endomembranes, cell membrane for transport and mitochondria with chloroplast for biochemical reactions.

Academic Vocabulary

Cells
Cell Theory
Prokaryote
Eukarytote
Cell Membrane
Nucleus
Nucleoid Region
Cytoplasm
Organelles
Flagella
Cilia
Ribosomes
Rough Endoplasmic Reticulum
Smooth Endoplasmic Reticulum
Golgi Bodies
Lysosomes
Cytoskeleton
Centrioles
Microtubules
Microfilaments
Intermediate Filaments
Mitochondria
Vesicles
Vacuoles
Chloroplasts
Cell Transport
Selectively Permeable
Passive Transport
Diffusion
Facilitated Diffusion
Osmosis
Hypotonic
Hypertonic
Isotonic
Active Transport
Sodium Potassium Pump
Endocytosis
Phagocytosis
Pinocytosis
Exocytosis

Topic: Differentiation between Prokaryotic & Eukaryotic Cells with Organelles **Duration:** 10 Day(s)

Learning Targets

Students will be able to differentiate between simple and complex cells using classification of prokaryotic versus eukaryotic in relation to organelle function and structure.

Learning Targets linked to Priority Standard = ✙

Topic: ATP for Autotrophs & Heterotrophs **Duration:** 3 Day(s)

Learning Targets

Students will describe the process autotrophs use to ultimately make ATP and food for the organism.
Students will describe the process heterotrophs will use to ultimately make ATP from chemical components.

Learning Targets linked to Priority Standard = ✙

Topic: Rates of Photosynthesis with Chloroplast **Duration:** 3 Day(s)

Topic Description (short)

Students will be able to demonstrate knowledge of the carbon cycle as it pertains to the chloroplast and its function of photosynthesis to make food and have a byproduct of oxygen.

Learning Targets

Students will conduct and experiment to observe how the interaction between carbon dioxide with a plant produces oxygen.

Learning Targets linked to Priority Standard = ✙

Topic: Functions of Anaerobic & Aerobic Respiration with Mitochondria **Duration:** 5 Day(s)

Topic Description (short)

Summarize how energy transfer occurs during cellular respiration as energy is stored and released from the bonds of chemical compounds.

Learning Targets

Students will learn how organisms obtain energy and identify reactants and products of cell respiration.

Learning Targets linked to Priority Standard = ✙

Topic: Dynamics of Cell Transport **Duration:** 4 Day(s)

Learning Targets

Students will utilize various materials to model how materials use passive transport to keep homeostasis. In addition, active transport will be compared and contrasted with passive transport.

Learning Targets linked to Priority Standard = ✙

Unit: Function of DNA & Protein Synthesis in Relation to Cell Organelles

Duration: 15 Day(s)

Unit Description

Students will determine the structure and function of DNA and RNA in the role of genetics and coding for proteins.

Academic Vocabulary

DNA
Nucleic Acid
Nucleotide
Phosphate
Deoxyribose
Nitrogen Base Pairs
Thymine
Adenine
Guanine
Cytosine
RNA
Ribose
Uracil
mRNA
tRNA
rRNA
Transcription
Translation

Topic: DNA Structure in the Nucleus & Replication **Duration:** 3 Day(s)

Topic Description (short)

Students will learn how the structure of DNA with nitrogen bases determines nucleotide structure and how this information is replicated.

Learning Targets

Describe and model the chemical and structural properties of DNA and replication process.

Biology

Science

Grade(s) 10th, Duration 1 Year, 1 Credit
Required Course
Learning Targets linked to Priority Standard = ✙

Topic: RNA Structure & Replication Process **Duration:** 3 Day(s)

Topic Description (short)
Students will learn how the structure of RNA codes for proteins.

Learning Targets
Describe the chemical and structural properties of RNA and application to protein synthesis.

Learning Targets linked to Priority Standard = ✙

Topic: RNA Protein Synthesis Process **Duration:** 3 Day(s)

Topic Description (short)
Students will learn that DNA codes for proteins through the structure of RNA.

Learning Targets
Model steps of protein synthesis through transcription and translation.

Learning Targets linked to Priority Standard = ✙

Topic: The role of enzymes in chemical reactions **Duration:** 4 Day(s)

Learning Targets
Students will demonstrate the process of using DNA to code for proteins and follow through the transcription and translation process to make a protein. Discussion will focus on how proteins can be enzymes that lower the activation energy of a reaction. Main focus will be on lactase.

Learning Targets linked to Priority Standard = ✙

Unit: Cell Division with Genetic Inheritance & Variation of Traits

Duration: 25 Day(s)

Academic Vocabulary
Asexual Reproduction
Binary Fission
Budding
Regeneration
Mitosis
Interphase
G1
G2
G0
S
Interphase
Centrioles
Nuclear Membrane
Prophase
Chromatin
Chromosome
Spindle Fibers
Metaphase
Kinetochore Fibers
Anaphase
Telophase
Cleavage Furrow
Cell Plate
Cytokinesis
Daughter Cells
Diploid
Sexual Reproduction
Meiosis
Prophase 1 & 2
Crossing Over
Metaphase 1 & 2
Anaphase 1 & 2
Telophase 1 & 2
Haploid
Gregor Mendel
Punnett Squares
Homozygous
Heterozygous

Dominant
Recessive
Genotype
Phenotype
Monohybrid Cross
Dihybrid Cross
Genetic Mutations
Genetic Disorders
Sickle Cell Anemia
Hemophilia
Cystic Fibrosis
Phenylketonuria
Muscular Dystrophy
Tay-Sachs
Down's Syndrome
Klinefelter's Syndrome
Turner's Syndrome
Genetic Engineering
Cloning
Stem Cells
CRISPR

Topic: Role of DNA & chromosomes **Duration:** 4 Day(s)

Learning Targets

Students will differentiate between terms of genotype and phenotype that apply to chromosomes and genes for genetic inheritance.

Learning Targets linked to Priority Standard =

Topic: Mitosis with Cell Repair & Specialization **Duration:** 4 Day(s)

Learning Targets

Students will model through activities to demonstrate the stages of mitosis that results in two identical cells using asexual reproduction.

Learning Targets linked to Priority Standard =

Topic: Meiosis for Variation **Duration:** 3 Day(s)

Learning Targets

Students will demonstrate using models and activities the steps of meiosis that leads to crossing over and the production of haploid, different cells from parent.

Students will compare and contrast the processes and organisms that utilize asexual and sexual reproduction.

Learning Targets linked to Priority Standard =

Topic: Embryology **Duration:** 2 Day(s)

Learning Targets

Discussion will occur how genetic inheritance impacts the development of cells for specialization.

Learning Targets linked to Priority Standard =

Topic: Gene Expression **Duration:** 2 Day(s)

Learning Targets

Students will express how gene penetrance occurs with traits are passed down generations.

Learning Targets linked to Priority Standard =

Topic: Role of Meiosis in Variation (Mendel Principles) **Duration:** 5 Day(s)

Learning Targets

Using terminology from genetic crosses, students will determine the probability of traits created through the process of meiosis and indicate variations from sexual reproduction.

Learning Targets linked to Priority Standard =

Topic: Genetic Mutations & Disorders **Duration:** 3 Day(s)

Learning Targets

Students will discuss the differences between mutations and determine how the possibility of having a recessive, dominant or sex-linked genetic disorder occurs using a Punnett square.

Learning Targets linked to Priority Standard =

Biology

Science

Grade(s) 10th, Duration 1 Year, 1 Credit
Required Course

Topic: Biotechnology **Duration:** 2 Day(s)

Learning Targets

Students will become familiar with types of technology that are used with DNA and determining of traits. In addition, students will research about system in place such as stem cell technology looking at bringing back endangered species or increasing biodiversity.

Learning Targets linked to Priority Standard = ✣

Unit: Flow of Matter & Energy with Community Interactions

Duration: 30 Day(s)

Unit Description

Students will be able to identify relationships among organisms and evaluate how energy is transferred from one organism to another. This interaction of matter also includes the movement of carbon, water, nitrogen and phosphorus. Additionally, students will include the characteristics of each major terrestrial and aquatic biome to apply how energy flows throughout the Earth and how interconnected relationships exist.

Academic Vocabulary

biosphere
species
population
community
ecology
ecosystem
biome
biotic factor
abiotic factor
autotroph
producer
photosynthesis
chemosynthesis
heterotroph
consumer
carnivore
omnivore
scavenger
detrivore
decomposer
food chain
predator
prey
food web
trophic level
biogeochemical cycle
nutrients
cellular respiration
decomposition
deposition
sedimentation
combustion
evaporation
condensation
transpiration
precipitation
run off
infiltration
ground water
nitrogen fixation
bacteria
assimilation
nitrification
fertilizers
dentification
phosphorus
weathering
eutrophication
habitat
niche
biome
deciduous forest
tropical rainforest

grassland/ prairie
desert
savanna
taiga
tundra
symbiosis
mutualism
parasitism
commensalism

Materials and Resources (optional)

Link for worksheet for students dissecting owl pellet and relate to food chains and food webs:
https://www.biologycorner.com/resources/Owl_Pellet_Bone_Chart_grid.pdf
Link for worksheet for students applying knowledge learned for food chains, food webs and trophic levels:
http://www.crooksville.k12.oh.us/wp-content/uploads/2020/04/7th-Science-Calamity-1.pdf?scrlybrkr=21b17bca

Topic: Food Chains, Food Webs & Biomass Pyramids **Duration:** 4 Day(s)

Learning Targets

Students will be able to identify relationships among organisms and demonstrate how energy is transferred.
Students will extrapolate components of an ecosystem to identify producers, consumers, decomposers to make food webs and apply to trophic levels.

Learning Targets linked to Priority Standard = ✙

Topic: Carbon Flow through Ecosystem **Duration:** 2 Day(s)

Learning Targets

Using owl pellet dissections, students will explain how carbon transfers from the producer all the way through to an owl and a decomposer.

Learning Targets linked to Priority Standard = ✙

Topic: Connection of carbon & oxygen flow in ecosystem **Duration:** 2 Day(s)

Learning Targets

Students will use computer simulations to understand components of the carbon systems in relationship to photosynthesis.

Learning Targets linked to Priority Standard = ✙

Topic: Biogeochemical Cycle- Water **Duration:** 2 Day(s)

Learning Targets

Students will relate water cycle terminology and systems as an abiotic source for living things.
Students will identify water properties and explain how these factors relate the the water cycle in ecosystems.

Learning Targets linked to Priority Standard = ✙

Topic: Biogeochemical Cycle- Nitrogen & Phosphorus **Duration:** 3 Day(s)

Learning Targets

Students will explain relationships of the nitrogen and phosphorus cycle as these factors relate to the exchange of matter in an ecosystem.

Learning Targets linked to Priority Standard = ✙

Topic: Symbiotic Relationships **Duration:** 2 Day(s)

Learning Targets

Students will discuss and develop examples where relationships exists between different types of organisms in various ecoystems.

Learning Targets linked to Priority Standard = ✙

Topic: Coral Reef interaction with marine life **Duration:** 2 Day(s)

Learning Targets

Students will study and relate how biogeochemical cycles impact coral reefs focusing on the carbon cycle.

Learning Targets

Students will study and research the impact biogeochemical cycles are having on coral reefs.

Learning Targets linked to Priority Standard = ✙

Topic: Biomes **Duration:** 5 Day(s)

Learning Targets

Biology

Science

Grade(s) 10th, Duration 1 Year, 1 Credit
Required Course

Students will differentiate between various ecosystems of the world through climate, weather, animal/ plant relationships, resources and genetic diversity of species of each biome.

Learning Targets linked to Priority Standard = ✣

Unit: Changes in Ecosystems with Human Dependence on Earth & Interactions

Duration: 8 Day(s)

Unit Description

Students will study the growth patterns of various organisms which also includes humans. Students will also analyze the impacts humans have on Earth's communities and resources. Special attention is made to the geology and formation of coral and how global warming has affected those aquatic ecosystems.

Academic Vocabulary

population
population density
immigration
emigration
exponential growth
logistic growth
carrying capacity
density dependent growth factors
density independent growth factors
random populations
uniform populations
clumped populations
renewable resources
nonrenewable resources
sustainable development
deforestation
desertification
pollution
biological magnification
smog
acid rain
biodiversity
global warming
climate change
coral bleaching

Topic: Population Ecology

Duration: 3 Day(s)

Learning Targets

Students will determine dependent and independent growth factors and the impacts these factors have on population growth. Data tables & graphs will be analyzed to describe logistic versus exponential growth.

Learning Targets linked to Priority Standard = ✣

Topic: Growth of human population on ecosystems

Duration: 2 Day(s)

Learning Targets

Students will graph the population of Tipton versus Columbia and explain factors that have contributed to growth and debate whether humans have reached their carrying capacity.

Learning Targets linked to Priority Standard = ✣

Topic: Human activities impact on Earth

Duration: 4 Day(s)

Learning Targets

Students will conduct research regarding various human impacts and investigate community members knowledge base regarding these impacts. Issues with the impacts will be addressed as well as solutions.

Learning Targets linked to Priority Standard = ✣

Unit: Earth's History & Formation

Duration: 10 Day(s)

Unit Description

This section mainly follows details outlined with DESE and attached documents supplied by Melanie Carden- Jensen looking how layers develop on Earth especially around coral.

Academic Vocabulary

Law of Superposition
Biogeography

Carbon 14 dating
Coral Formation
Sedimentation

Topic: Plate Tectonics & Law of Superposition **Duration:** 2 Day(s)

Learning Targets

Students will relate the formation of coral to how new species are created along an island reef and how they can cahnge due to coral bleaching.

Learning Targets linked to Priority Standard =

Topic: Differences in oceanic rocks (include meteorites) **Duration:** 3 Day(s)

Topic: Carbon 14 Dating **Duration:** 2 Day(s)

Learning Targets

Students can relate age of fossils with evidence that relates to common ancestry of organisms found at same time period of Earth's history and how DNA has altered.

Learning Targets linked to Priority Standard =

Topic: Biogeography **Duration:** 1 Day(s)

Topic Description (short)

Review how plants and animals are related to each other with spacing of geographic distance.

Unit: Common Ancestry & Natural Selection

Duration: 10 Day(s)

Unit Description

Natural Selection is based on having traits allow survivability. Students will determine how genetics plays a role in determinig how the "fittest" survive.

Academic Vocabulary

Natural Selection
Evolution
Fossils
Artificial Selection
Adaptation
Survival of the Fitness
Biogeography
Homologous Structure
Analogous Structure
Vestigial Structure
Embryology
Gene Pool
Genetic Variation
Reproductive Isolations
Geographic Isolation
Behavioral Isolations
Seasonal Isolations

Topic: Fossil Record **Duration:** 2 Day(s)

Topic: Patterns of Evolution **Duration:** 3 Day(s)

Topic: Reproductive Isolations **Duration:** 3 Day(s)

Topic: Adaptive Radiation **Duration:** 2 Day(s)

Unit: Biodiversity

Duration: 10 Day(s)

Unit Description

Students will investigate the characteristics of various living organisms to each kingdom. Students will view specimens and conduct a dissection.

Academic Vocabulary

Biodiversity
Taxonomy
Linnea's

Domain
Archaea
Eubacteria
Kingdom
Protist
Fungi
Plantae
Animalia
Phylum
Class
Order
Family
Genus
Species
Mammalia
Body Symmetry
Asymmetry
Bilateral
Radial
Skeleton
Endoskeleton
Exoskeleton
Vertebrate
Invertebrate
Hydrostatic Skeleton
Body Layers
Diploblastic
Triploblastic
Body Cavities
Acoelomate
Pseudocoelomate
Coelomate
Heterotroph
Autotroph

Topic: Taxonomy & Binomial Nomenclature **Duration:** 2 Day(s)

Topic: Kingdoms & Characteristics **Duration:** 5 Day(s)

Topic: Dissections **Duration:** 3 Day(s)