CURRICULUM MAP

Subject: Earth Science **Grade Level: 9th/10th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
UNIT 1: EARTH DIMENSIONS **Introduction** ● metric system, density, graphing **Description of Earth** ● Shape - oblate spheroid ● Size - diameters ● Parts - atmosphere, hydrosphere lithosphere ● Maps -latitude & longitude -field maps & isolines -topo maps -contour lines -gradient **UNIT 2: ROCKS & MINERALS** **Earth Composition** ○ mineral resources ○ rocks - composed of minerals **Minerals** ○ identification & classification ○ arrangements & bonding **Igneous** ○ origin ○ texture, comp. ○ intrusive & extrusive **Sedimentary** ○ origin ○ types - clastic, chemical, organic **Metamorphic** ○ origin ○ characteristics & types **Conservation** **Current Events** ○Articles	**UNIT 3: SURFACE PROCESSES & LANDSCAPES** **Weathering** ● physical & chemical ● particles & surface area ● mineral composition **Weathering Products** ● soil ● human influences **Erosion** ● residual vs. transported ● agents ● particles vs. stream velocity **Deposition** - size, shape, density **Landforms** - climate, rocks & structures **UNIT 4: DYNAMIC CRUST** **Earthquakes** ● zones of activity ● p & s waves ● epicenters **Earth's Interior** ● density & temp/w depth ● seismic & meteorite evidence **Place Movements** ● rock & fossil correlations ● heat flow ● hot spots ● rifting, subdivision, faults **Properties of Crust** ● ocean bottom - basaltic ● continent - granite	**UNIT 5: EARTH HISTORY** **Geological Sequence** ● igneous - intrusion/extrusions ● faults & folds are younger **Correlation** ● walking the outcrop ● index fossils ● volcanic ash **Geologic History** ● time scale ● buried erosion surface ● wind - magnitude & direction **Absolute Ages** **Evolution** **UNIT 6: METEOROLOGY** **Description & Measurement** ● daily temp. & dew point ● relative humidity ● wind magnitude & direction **Relations Among Variables** **Clouds** ● adiabatic cooling concept ● cooling before dew point **Weather Maps** ● isolines ● fronts **Forecasting** ● movement of air masses ● geographic origin of air ● cyclones/anticyclones ● probability predictions **Hazardous Weather**	**UNIT 7: WATER CYCLE & CLIMATES** **Sources of Water** ● oceans - major source ● water cycle **Solar Energy** ● sun - major source ● intensity & angle ● seasons ● day length ● greenhouse effect **Climate Factors** ● uses of water budget ● effects of latitude & altitude ● prevailing winds ● mountain barriers **Water Quality** **UNIT 8: ASTRONOMY** **Celestial Observations** ● sun's path ● earth's rotation ● constellations ● geocentric - heliocentric theory **Revolution with Tilt** ● sun's path with season/latitude ● noon position ● changing positions of sunrise & sunset ● seasons **Cosmic Features** **Earth in Universe**

CURRICULUM MAP

Subject: Regents Biology **Grade Level: 9th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
UNIT 1: Marathon Runner ● Homeostasis ● Feedback mechanisms in humans **UNIT 2: Humans vs Bacteria** ● Natural Selection	**UNIT 2: Humans vs Bacteria cont'd** ● Interdependence of Organisms **UNIT 3: Evolution of Sick Humans** ● Genetics ● Protein synthesis ● Mismatch hypothesis	**UNIT 4: Saving the Mountain Lion** ● Reproduction ● Genetic variation **UNIT 5: Food for All** ● Energy	**UNIT 5: Food for All cont'd** ● Matter in ecosystems **UNIT 6: Woolly Mammoth** ● Ecosystem resilience ● Climate change ● Human impact

CURRICULUM MAP

Subject: Regents Chemistry **Grade Level: 11th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
MATH SKILLS- VOCAB ● Scientific notation ● Metric system ● Element names/symbols **ATOMIC STRUCTURE** ● Part of atom ● Rutherford model ● Avogadro's # mole concept ● Relative average at mass **ELECTRON CONFIGURATIONS** ● Bohr model ● Electron configuration notation ● Orbital config. notation ● Electron dot notation ● Orbital model ● Spectroscopy ● Quantum numbers - Honors **BONDING/ INTERPARTICLE BONDING/TABLE** ● Ionic bonding ● Covalent bonding ● Electronegativity ● Molecular shape/dipole ● Energy changes in bonding ● Metallic crystal ● Network crystal ● Molecular crystal ● Van der Waal's crystal ● Ionic crystals ● Melting/boiling points ● Periodic table history ● Groups and periods ● Periodic trends	**NAMING & FORMULA WRITING** ● Oxidation rules ● Formula writing ● Polyatomic ions ● IUPAC system ● % composition **EQUATION WRITING** ● Composition ● Decomposition ● Cation replacement ● Anion replacement ● Double replacement ● Combustion ● Electrolysis ● Neutralization **STOICHIOMETRY** ● Mass-mass ● Mass-volume ● Limiting/excess reagents **GAS LAW MATERIAL** ● Kinetic molecular theory ● Graham/Boyle/Charles' Laws ● Avogadro's Law ● Ideal gas law ● Combined law ● Density of gasses ● Pressure ● Dalton's Law ● Molecular weight and density	**PHASES OF MATTER** ● Phase characteristics ● Heating/cooling curves ● Heat equation ● Heat of fusion/vaporization **SOLUTION CHEMISTRY** ● Solute/solvent ● Solubility curves ● Arrhenius theory ● Energy changes ● % concentration by mass ● Molarity ● Molality-Honors ● Conductivity of solutions ● Changes in f.pt/b.pt **ACID/BASE THEORY** ● General Characteristics Arrhenius theory ● Bronsted-Lowry theory ● Titrations ● Naming acids/bases ● pH and pOH scales **KINETICS/EQUILIBRIUM** ● Potential energy diagrams ● Enthalpy changes ● React.rt./collision theory ● Equilibrium ● LeChatelier's principle ● Rate law/equil/ constant	**EQUIL. CONSTANTS/ SPONTANEITY** ● Ka and Kb (w. acid-Honors) ● Kw ● Ksp ● Free energy change **REDUCTION/ OXIDATION CHEMISTRY** ● Half reactions ● Balancing redox equations ● Electrochemical cells ● Voltage ● Electrolytic cells **ORGANIC CHEMISTRY** ● Chemistry of carbon ● Aliphatic series ● Aromatic series ● Naming ● Functional groups ● Substitution reactions ● Addition reactions ● Polymerization reactions ● Esterification reactions **RADIOACTIVITY** ● Particle/rays ● Half life ● Decay equation ● Fusion/fission ● Nuclear power plants

CURRICULUM MAP

Subject: AP Biology **Grade Level: 12th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
CHEMISTRY • Atoms, molecules, bonding • Properties of water • Organic molecule types • Enzymes **CELLS** • Prokaryote/eukaryote • Organelles • Membrane properties **PHOTOSYNTHESIS** • Chloroplast structure • Light reactions • Dark reactions • Oxidative phosphorylation • Chemiosmotic theory • C4 reactions **RESPIRATION** • Glycolysis • Krebs cycle • ATP output • Mitochondrial membranes • Chemiosmotic theory • Anaerobic respiration	**CELL DIVISION** • Why cells divide • Stages of mitosis • Stages of meiosis • Sims/diffs between the two • Genetic variation **HEREDITY & GENETICS** • History of genetics • Genetic crosses • Incomplete • dominance • Multiple alleles • Epistasis • Linkage • Sex-linkage • Nondisjunction • Human genetics **MOLECULAR GENETICS** • DNA structure/replication • RNA structure • Transcription/translation • viral/bacterial genetics • recombinant DNA • Regulation of gene expression **EVOLUTION** • Evidence • Natural selection • Sources of variation • Genetic equilibrium • Patterns of evolution • Origin of life	**ANIMALS** • Respiration • Circulation • Excretion • Digestion • Regulation • Support/movement • Immunity **ANIMAL REPRO & DEVELOPMENT** • Sexual differences • Human repro anatomy • Gametogenesis • Hormonal regulation • Embryonic development	**ANIMAL BEHAVIOR** • Genetic basis • Kinds of behavior • Communication • Social behavior **ECOLOGY** • Population ecology • Communities • Ecosystems • Biomes • Ecological succession • Biogeochemical cycles • Human impact - biosphere **LABORATORY REVIEW** • AP Bio test review • Practice multiple choices • Sample essays **SIX KINGDOM SURVEY** • Bacteria • Archaea • Protisa • Fungi • Plantae • Animalia **PLANTS** • Roots/stems/leaves • Transport of water/sugar • Hormones • Reproduction • Tropisms

CURRICULUM MAP

Subject: Human Biology **Grade Level: 11th/12th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
ORGANIZATION OF HUMAN BODY ● anatomical directions ● plan of human body ● levels of organization ● body planes/cavities ● body systems **MECHANISMS OF DISEASE** ● causes ● risk factors ● prevention and control ● cancers **SKELETON-THE FRAMEWORK** ● structure of bone ● axial skeleton ● appendicular skeleton ● joints and movement ● disorders of skeletal system **MUSCLE TISSUE** ● anatomy ● sarcomere structure ● sliding filament theory ● energy requirements ● disorders of the muscles ● Muscular System ○ types of movement ○ muscles of axial skeleton ○ disorders of muscular system	**NERVOUS SYSTEM** ● structure of neuron ● transmission of impulse ● synaptic transmission ● disorders of neurons ● central nervous system/brain ● autonomic nervous system ● peripheral nervous system ● disorders of nervous system **THE HEART** ● structure/blood flow ● control of heart rate ● heart disorders ● arteries/veins/capillaries ● circulatory routes ● control of blood pressure ● disorders of vascular system **DIGESTIVE SYSTEM** ● Mouth o esophagus/peristalsis o disorders of upper GI tract ● Stomach ○ gastric secretions ○ chemical/mechanical digestion ○ disorders of stomach ● Intestines ○ small intestine/villi ○ large intestine ○ liver/gallbladder/pancreas ○ absorption/defecation ○ disorders of lower GI tract **RESPIRATORY SYSTEM** ● structures of respiratory tract ● diaphragm/breathing mech. ● control of breathing ● disorders of respiratory tract		

CURRICULUM MAP

Subject: Current Topics in Biology **Grade Level: 11th/12th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
		RIGHT TO DIE/ RIGHT TO REFUSE MEDICAL TREATMENT ● Dr. Kevorkian ● Euthanasia **REPRODUCTIVITY** ● Egg/sperm donors ● Frozen embryos ● Cloning ● Surrogacy **AIDS** ● Causes ● Prevention ● Treatment **SEX EDUCATION** ● School's role ● TV effects ● Abstinence	**DRUGS** ● Trends ● Legalization ● HIV association ● Alcohol **TRANSPLANTS** ● Who? why? costs ● Animal organs ● Fetal tissues **GENETIC REVOLUTION** ● DNA studies ● Bio-engineered plants ● Stem cell research

CURRICULUM MAP

Subject: Physics: The Physical Setting **Grade Level: 11th/12th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
UNIFORM MOTION ● Displacement ● Velocity ● Acceleration ● Graphing & graph ● Motion equations ● Centripetal accelerations **FORCES** ● Newton's 1st law ● Newton's 2nd law ● Frictional forces & equations ● Centripetal forces ● Gravitational Focus ○ universal gravitation ○ Kepler's laws **VECTORS** ● Scalers & vectors ● Parallel vectors ● Perpendicular vectors ○ parallelogram method ○ head to tail method ○ by components	**MOTION IN TWO DIMENSIONS** ● Independent of perpendicular motions ● Projectile motion ● Circular motion **MOMENTUM** ● Impulses & momentum equations ● Newton's 3rd law ● Conservation of momentum ● Internal & external forces ● Conservation of momentum in 2 or 3 dimensions **ENERGY** ● Work ● KE & PE energy ● Simple machines ● Mechanical advantage ● Conservation of energy ● Conservation of energy in collisions ● Power ● Torques ● Mass - energy conservation	**WAVES** ● Types of waves ● Wave characteristic ● Interference ● Polarization ● Diffraction ● Resonance & standing waves ● Doppler effect **SOUND & LIGHT** ● Reflection ● Refraction (Snell's law) **ELECTRONIC FIELDS)** ● Static electricity & charges ● Electrostatic fields ● Charging by conduction ● Charging by induction ● Potential differences ● Charge distribution & field strength ○ point charges ○ wires & rods ○ parallel plates	**CURRENT ELECTRICITY** ● Electric current ● Resistance ● Ohm's law ● Electrical power ● Series circuit ● Parallel circuit ● Series - parallel circuits ● Resistivity **MAGNETISM & ELECTROMAGNET APPLICATIONS** ● Magnetic domain & field directions ● Magnetic field distribution & strength ● Electromagnetic induction ○ right hand rule #1 ○ right hand rule #2 ○ right hand rule #3 ● Motors ● Generators ● Transformers **MODERN PHYSICS** ● Photoelectric effect ● Light wave particle ● Emission spectrum ● Debroglie wavelengths ● Models of the atom ○ Rutherford model ○ Bohr model ● The Standard Model

CURRICULUM MAP

Subject: AP Chemistry **Grade Level: 11th/12th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Unit 1 – Matter & Atomic Structure ● Significant figures, units ● Types of matter ● Atomic theory **Unit 2-Stoichiometry** ● Formulas and naming ● The mole ● Mass relations in reactions **Unit 3 – Chemical Reactions** ● Types of reactions ● Molarity ● Solutions ● Precipitation reactions ● Acid base reactions ● Redox reactions **Unit 4 -Gases** ● Gaseous state ● Ideal gas law ● Stoichiometry of reactions ● Partial pressure ● Mole fraction ● Kinetic molecular theory ● Real gasses **Unit 5 - Thermochemistry** ● Calorimetry ● Enthalpy ● Thermochemical equations	**Unit 6- Electronic Structure & Periodic Table** ● Wave nature of light ● Quantum Numbers ● Historical aspects ● Periodic trends **Unit 7- Bonding & Molecular Geometry** ● Bond energy ● Intermolecular forces ● Electron Dot Diagrams ● VSEPR **Unit 8- Liquids & Solids** ● Vapor Pressure ● Phase Diagrams ● Types of solids **Unit 9 - Solutions** ● Concentration systems ● Solution stoichiometry ● Principles of solubility ● Colligative properties **Unit 10- Chemical Thermodynamics** ● Entropy and enthalpy ● Free energy equation ● State Functions	**Unit 11 – Kinetics** ● Rate vs. concentration ● Concentration vs. time ● Activation energy ● Rate vs. temperature ● Reaction mechanism ● Catalysts **Unit 12 –Equilibrium** ● Equilibrium system ● Equilibrium constant ● Applications of Keq ● LeChatelier and stresses **Unit 13- Acid-Base Theory** ● Ka and Kb ● Buffers ● Indicators ● Titrations **Unit 14 – Solubility Equilibrium** ● Ksp ● Common ion ● Precipitation **Unit 15-Electrochemistry** ● Redox equations ● Electrochemical cells ● Electrolysis ● Nernst equation	**Unit 16-Nuclear Chemistry** ● Nuclear equations ● Half-lives ● Nuclear particle emissions ● Fission & Fusion **REVIEW FOR AP EXAM** Emphasize on: ● Balanced net ionic equations ● Complex ions ● Solubility rules ● Organic nomenclature

CURRICULUM MAP

Subject: Astronomy **Grade Level: 11th/12th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
I. Introduction to Astronomy Introduction to Our Solar System Planetary Geology Why only 8 planets? II. Origins of Astronomy Constellations (Mythology) Introduction to research and presentation methods Using Stars/Constellations as Reference Points III. Historical Astronomy Introduction to possible powerpoint devices Historical Astronomers IV. Cosmic Voyage	V. Space Science Human Exploration Modern Exploration Benefits of space science Deep Space Astronomy Extraterrestrial Life Self-Guided Research VI. Telescopes		

CURRICULUM MAP

Subject: AP Environmental Science **Grade Level: 11th/12th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Unit 1 – The Living World: Ecosystems ● Intro to Ecosystems ● Terrestrial Biomes ● Aquatic Biomes ● Carbon Cycle ● Nitrogen Cycle ● Phosphorus Cycle ● Hydrologic Cycle ● Primary Productivity ● Trophic Levels ● Energy Flow and the 10% Rule ● Food Chains and Food Webs **Unit 2 - The Living World: Biodiversity** ● Intro to Biodiversity ● Ecosystem Services ● Island Biogeography ● Ecological Tolerance ● Natural Disruptions to Ecosystems ● Adaptations ● Ecological Succession **Unit 3 – Populations** ● Generalist & Specialist species ● K-selected & r-selected species ● Survivorship Curves ● Carrying Capacity ● Population Growth & Resource Availability ● Age structure diagrams ● Total Fertility Rate ● Human Population Dynamics ● Demographic Transition	**Unit 4 - Earth Systems & Resources** ● Plate Tectonics ● Soil Formation & Erosion ● Soil Composition & Properties ● Earth's Atmosphere ● Global Wind Patterns ● Watersheds ● Solar Radiation & Earth's Seasons ● Earth's Geography & Climate ● El Nino & La Nina **Unit 5 - Land & Water Use** ● Tragedy of the Commons ● Clearcutting ● The Green Revolution ● Impacts of Agricultural Practices ● Irrigation Methods ● Pest Control Methods ● Meat Production Methods ● Impacts of Overfishing ● Impacts of Mining ● Impacts of Urbanization ● Ecological Footprints ● Introduction to Sustainability ● Methods to Reduce Urban Runoff ● Integrated Pest Management ● Sustainable Agriculture ● Aquaculture ● Sustainable Forestry	**Unit 6 – Energy Resources & Consumption** ● Renewable & nonrenewable ● Global energy consumption ● Fuel types and uses ● Distribution of natural energy resources ● Fossil fuels ● Nuclear power ● Energy from biomass ● Solar energy ● Hydroelectric power ● Geothermal energy ● Hydrogen fuel cell ● Wind energy ● Energy Conservation **Unit 7 – Atmospheric Pollution** ● Intro to air pollution ● Photochemical smog ● Thermal inversion ● Atmospheric CO2 & particulates ● Indoor air pollutants ● Reduction of air pollutants ● Acid rain ● Noise Pollution **Unit 8 - Global Change** ● Stratospheric ozone depletion ● Reducing ozone depletion ● Greenhouse effect ● Increases in greenhouse gasses ● Global climate change ● Ocean warming ● Ocean acidification ● Invasive species ● Endangered Species ● Human Impacts on Biodiversity	**Unit 9 - Aquatic & Terrestrial Pollution** ● Sources of pollution ● Human impacts on ecosystems ● Endocrine disruptors ● Human impacts on Wetlands & Mangroves ● Eutrophication ● Thermal pollution ● Persistent organic pollutants ● Bioaccumulation & biomagnification ● Solid waste disposal ● Waste reduction methods ● Sewage treatment ● Lethal dose 50% ● Dose response curve ● Pollution & human health ● Pathogens & infectious diseases **REVIEW FOR AP EXAM** **FINAL PROJECT FOLLOWING AP EXAM** ● Students will complete a culminating project that will demonstrate understanding of various concepts that were learned throughout the year.

CURRICULUM MAP

Subject: Forensics **Grade Level: 11th/12th** **Updated Review July 2024**

FIRST QUARTER	FIRST QUARTER cont'd	SECOND QUARTER	SECOND QUARTER cont'd
• Define forensic science or criminalistics • Describe the services of a typical comprehensive crime laboratory • Define physical evidence • Review the proper collection and packaging of common types of physical evidence • Define chain of custody • Explain the difference between the identification and comparison of physical evidence. • Define individual and class characteristics. • Define physical and chemical properties • List and define the metric system's basic units and prefixes • Define elements and compounds • Define phase • Describe the electromagnetic spectrum • Distinguish between the Celsius and Fahrenheit • Distinguish mass from weight • Define density • Define psychological and physical dependence • Describe the schedules of the Controlled Substances Act • Describe the process of chromatography • Explain the difference between thin-layer and gas chromatography Name the parts of a simple absorption spectrophotometer • Explain how alcohol is absorbed into the bloodstream, transported throughout the body, and finally eliminated by oxidation and excretion. • Describe the design of the Breathalyzer	• Explain the significance of a chemical equation • Define acid and base • List the parts of the compound microscope • List the A-B-O antigens and antibodies found in the blood for each of the four blood types: A, B, AB, and O. • Explain why agglutination occurs • Explain how whole blood is typed • Describe tests used to characterize a stain as blood • Define chromosome and gene • List the laboratory tests necessary to characterize seminal stains. • Describe the concept of base pairing as it relates to the double helix structure of DNA. • Explain how the sequence of bases along a DNA strand ultimately determines the structure of proteins that are synthesized within the body. • Describe how a double-strand DNA replicates itself. What are the implications of this process for forensic science? • Understand how DNA can be cut and spliced into a foreign DNA strand. • Explain the difference between DNA strands which code for the production of proteins and those strands which contain repeating sequences of bases. • Explain what is meant by a restriction fragment length polymorphism (RFLP). • Describe the process of typing DNA by the RFLP technique and explain how DNA band patterns are interpreted. • Explain the technology of polymerase chain reaction (PCR) and how it is applied to forensic science. • Explain the difference between nuclear DNA and mitochondrial DNA	• Describe the three phases of hair growth • List hair features that are useful for the microscopic comparison of human hairs. • Classify fibers. • Describe the structure of a polymer. • Define protons, neutrons, and electrons, including their mass and charge relationships. • Define atomic number and atomic mass number. • Explain the phenomenon of an atom releasing energy in the form of light • Define an isotope • Define radioactivity. • Describe the components of paint • Define oxidation • Describe the role of heat energy in chemical reactions • Describe the difference between an exothermic and endothermic chemical reaction. • Define ridge characteristics • Explain why a fingerprint is a permanent feature of the human anatomy.	• List the three major fingerprint patterns and their respective subclasses. • Explain what is meant by visible, plastic, and latent fingerprints. • List the class and individual characteristics of bullets and cartridge cases. • List some common individual characteristics associated with handwriting. • List some of the techniques utilized by document examiners for uncovering alterations, erasures, obliterations, and variations in pen inks. • Introduce search engines along with the mechanisms used to search for information on the Internet. • Describe other types of information retrieval, such as mailing lists and news groups, available through the Internet.

CURRICULUM MAP

Subject: AP Physics **Grade Level: 12th** **Updated Review July 2024**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Unit 1 – Kinematics ● Scalars and vectors in one dimension ● Displacement, velocity, acceleration ● Representing motion ● Reference frames and relative motion ● Vectors and motion in two dimensions **Unit 2 - Force & Translational Dynamics** ● Systems and center of mass ● Forces and free-body diagrams ● Newton's third law ● Newton's first law ● Newton's second law ● Gravitational Force ● Kinetic and Static friction ● Spring forces ● Circular motion **Unit 3 – Work, Energy, Power** ● Translational kinetic energy ● Work ● Potential Energy ● Conservation of Energy ● Power	**Unit 4 – Linear Momentum** ● Linear momentum ● Change to momentum and impulse ● Conservation of linear momentum ● Elastic and inelastic collisions **Unit 5 – Torque & Rotational Dynamics** ● Rotational kinematics ● Connecting linear & rotational motion ● Torque ● Rotational inertia ● Rotational equilibrium & Newton's first law in rotational form ● Newton's second law in rotational form	**Unit 6 – Energy & Momentum of Rotating Systems** ● Rotational kinetic energy ● Torque and work ● Angular momentum & angular impulse ● Conservation of angular momentum ● Rolling ● Motion of orbiting satellites **Unit 7 – Oscillations** ● Defining simple harmonic motion ● Frequency and period of SHM ● Representing and analyzing SHM ● Energy of simple harmonic oscillations	**Unit 8 – Fluids** ● Internal structure & density ● Pressure ● Fluids and Newton's laws ● Fluids and conservation laws **REVIEW FOR AP EXAM**

CURRICULUM MAP

Subject: Aquatic Ecology **Grade Level: 10th/11th/12th** **rev 07/24**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Curriculum map coming soon.			

CURRICULUM MAP

Subject: Physics Elective - Intro to Motion **Grade Level: 11th/12th** **rev 07/24**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Curriculum map coming soon.			

CURRICULUM MAP

Subject: Physics Elective - Electricity & Magnetism **Grade Level: 11th/12th** **rev 07/24**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Curriculum map coming soon.			

CURRICULUM MAP

Subject: Environmental Science **Grade Level: 11th/12th** **rev 07/24**

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Curriculum map coming soon.			