**Pacing Guide**

**Course: Anatomy & Physiology Grade: 11,12**

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| **Months/Days** | **UNITS** | **STANDARDS** | **CONTENT**  **Topics being covered? What do students need to know? (*nouns*)** | **ACTIVITIES**  **w/Integration of Technology & Career Ready Practices** | **ASSESSMENTS**  **What evidence (formative/summative) is utilized to establish that the content, standards, & skills have been mastered?** |
| **September/15** | **Introduction to the Human Body** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1**  **9-12.HS-LS1-1.LS1.A.2**  **9-12.HS-LS1-2**  **9-12.HS-LS1-2.LS1.A.1**  **9-12.HS-LS1-3.LS1.A.1**  **9-12.HS-LS1-4.LS1.B**  **9-12.HS-LS1-4.LS1.B.1** | **Characteristics of Life,Requirements of Organisms, Homeostasis**  **Matter,atoms, molecules**  **Molecular & structural formulas, chemical reactions, pH, organic vs. inorganic** | **Intro. To A&P Lab, Scientific Method Lab, Care & Use of Microscope Lab** | **Intro to A&P Test, Cell Test, Chemistry Quiz, Organelle Quiz** |
| **October/20** | **Introduction to the Human Body** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Organelles, cell membrane structure, transport systems, cell cycle, cell division,**  **Metabolism, DNA, protein synthesis, Tissues** | **Chromebook Activity-The Plasma Membrane, Cell City Project. Webquest-Cell Transport** | **Metabolism Test, Metabolism Quiz** |
| **November/15** | **The Integument/**  **Support and Movement** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Functions & layers of Skin, Skin color, burns, wound healing**  **Bone classification, bone function, Axial vs. appendicular skeleton** | **Epithelial Tissue Lab** | **Tissues Test, Tissue Quiz**  **MPA1** |
| **December/16** | **Support and Movement** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Joint classification & function, Synovial joints, joint motion, effects of aging on skeleton** | **Connective Tissue Lab, Skin Disease Research Paper** | **Skin Test, Fracture Quiz** |
| **January/20** | **Support and Movement** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Structure of skeletal muscle fiber, contraction, slow & fast twitch fibers, effects of exercise, frog dissection** | **Organization of the Skeleton Lab, Skeleton Webquest, Arm & Leg Lab, Joint Structure Lab** | **Skeleton Test, SGO Test(MPA2)** |
| **February/20** | **Integration and Coordination** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Functions of Nervous System, Neuron structure & classification, nerve impulse conduction** | **Benefits of exercise paper, Muscles of chest, shoulder, upper limb Lab, Skeleton edpuzzle, Skeletal muscle structure Lab, Senses edpuzzle** | **Muscular System Test, Muscle Quiz** |
| **March/20** | **Integration and Coordination** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Brain, Spinal cord, & Meninges, Reflex arc, hemisphere dominance, Central vs. autonomic nervous system, somatic & special senses** | **Eye Webquest, Nervous System Webquest** | **Nervous System Test,Neuron Quiz, Eye Quiz, Senses Test** |
| **April/20** | **Integration and Coordination/**  **Absorption and Excretion** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Endocrine vs. exocrine, hormones, negative feedback**  **Structure & Function of the Digestive System** | **Endocrine Hormones Lab** | **Endocrine Test, MPA 3** |
| **May/20** | **Absorption and Excretion** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Digestion**  **Structure & function of the Urinary System, Kidney function, Micturition**  **Respiratory structure & function, inspiration & expiration** | **Respiratory Lab, Urinary Webquest, Pig Dissection, Digestive System edpuzzle** | **Digestive Test, Achievement Night Project, Urinary Test, Urinary Quiz** |
| **June/14** | **Transport** | **9-12.HS-LS1-1.LS1.A**  **9-12.HS-LS1-1.LS1.A.1** | **Components of blood, red blood cell production, Cardiac cycle** | **Circulatory System edpuzzle** | **Respiratory Quiz, Blood Quiz, MPA4** |