

Anatomy Curriculum Map

Students will complete an analytical review of the documentary “Super Size Me” sometime prior to the end of the second nine weeks’ grading period (Dec.). (Writing Standard #1)

| MONTH | Unit | Strand | Core Content | Assessment type | Resources |
|------------------|---|--|--|---|--|
| August | Unit 1: Organizational Levels | 1. Relationships Between Anatomy and Physiology; Levels of Structural Organization; Maintenance of Life; Organization of the Human Body Language of Anatomy 2. Concepts of Matter & Energy; Types of Chemical Bonds; Patterns of Chemical Reactions; Biochemistry – Inorganic & Organic Compounds 3. Cellular Basis of Life; Anatomy of Cell; Movements through Cell Membranes; Cell Division & Differentiation 4. Metabolic Reactions; Control of Metabolic Reactions; Energy for Metabolic Reactions; Metabolic Pathways; Protein Synthesis | SC-08-3.4.1; SC-HS-3.4.2; SC-HS-3.4.3; | * Quizzes * Written Exam * Drawings and Colorings * Notebook check *Presentations *Chapters 2, 3, and 4 will be quickly reviewed and tested together as this is information that students have had in previous courses | * <i>Textbook</i> <i>Chapter 1:</i> pgs. 1-29 <i>Chapter 2:</i> pgs. 30-49 <i>Chapter 3:</i> pgs. 50-75 <i>Chapter 4:</i> pgs. 76-93 *Various Internet Websites |
| | <u>Chapters</u> 1. Introduction to Human Anatomy & Physiology 2. Basic Body Chemistry 3. Cells 4. Cellular Metabolism | | New Writing Stand. #4, 5, 6 New Reading Stand. #1, 2, 4, 6, 7 | | |
| September | 5. Tissues | 5. Epithelial Tissue – Classification & Types; Connective Tissue – Characteristics & Types; Types of Membranes; Types of Nervous Tissue | SC-08-3.4.1; SC-HS-3.4.1; SC-HS-3.4.2; SC-HS-3.4.3; SC-08-3.4.2; | * Quizzes * Written Exam * Drawings and Colorings * Notebook check | <i>Chapter 5:</i> pgs. 94-115 |
| September | | | | | |

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| MONTH | Unit | Strand | Core Content | Assessment type | Resources |
|-------------------|---|--|---|---|---|
| (cont.) | Unit 2: Support and Movement | | | *Presentations | |
| October | <u>Chapters</u> 6. Integumentary System | 6. Basic Skin Functions; Structure & Color of Skin; Appendages of Skin – Cutaneous Glands, Hair, Nails; Homeostatic Imbalances of Skin – Burns, Infections, Allergies, Cancer | SC-08-3.4.1; SC-HS-3.4.3; SC-08-3.4.2; | * Quizzes * Written Exam * Drawings and Colorings * Notebook check *Presentations | <i>Chapter 6:</i> pgs. 116-129 *Various Internet Websites *3-D Model of Skin and Layers |
| | 7. Skeletal System | 7. Bone Structure; Bone Structure; Bone Development and Growth; Bone Function; Fractures; Bones of the Axial Skeleton – Skull, Vertebral Column, Thorax; Bones of the Appendicular Skeleton – Shoulder Girdle, Upper Limbs, Pelvic Girdle, Lower Limbs; Types of Joints; Joint Movements & Disorders | SC-08-3.4.1; SC-HS-3.4.3; SC-08-3.4.2 Writing Stand. #4, 5, 6 Reading Stand. #1, 2, 4, 6, 7 | * Lab Exam * Drawings and Colorings * Notebook check *Presentations | <i>Chapter 7:</i> pgs. 130-175 *Various Internet Websites *Skeleton Model(s) *Skull Model |
| October (contin.) | Unit 2 (contin.) 8. Muscular | 8. Structure of a Skeletal Muscle; Skeletal Muscle Contraction; Muscular Responses; Smooth Muscle; Cardiac | SC-08-3.4.1; SC-HS-3.4.2; SC-08-3.4.2 | * Quizzes * Written Exam * Lab Exam | *Chapter 8: pgs. 176-210 |

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|----------|--|--|--|---|--|
| November | System | Muscle; Skeletal Muscle & Its Actions; Major Skeletal Muscles; Naming Skeletal Muscles; Gross Anatomy of Skeletal Muscles – Head Muscles, Trunk/Neck Muscles, Upper Limb Muscles, Lower Limb Muscles; Steroids; Inherited Diseases of Muscle; | | * Drawings and Colorings * Notebook check *Presentations | *Various Internet Websites *Skeleton Model(s) *Muscle Model |
| | Unit 3: Integration and Coordination 9. Nervous System | 9. Structural and Organizational Classification – CNS & PNS; Nervous System Function; Neuroglial Cells; Neurons; Synapses; Cell Membrane Potential; Nerve Impulses; Synaptic Transmission; Impulse Processing; Types of Nerves; Nerve Pathways; Meninges; Spinal Cord; Brain Anatomy and Functions; Effects of Drugs on Brain; PNS – Cranial and Spinal Nerves; Autonomic Nervous System | SC-08-3.4.1 SC-08-3.4.2 SC-08-3.4.5; SC-HS-3.4.8 Writing Stand. #4, 5, 6 Reading Stand. # 1, 2, 4, 6, 7 | * Quizzes * Written Exam * Lab Exam * Drawings and Colorings * Notebook check *Presentations | *Chapter 9: pgs. 177-259 *Various Internet Websites *Nervous System Model *Human Brain Model *Sheep Brain Dissection |
| December | Unit 3 (cont.) 10. The Senses | 10. Receptor, Sensations, & Perceptions; General Senses – Touch & Pressure, Temp., and Pain; Special | SC-08-3.4.1 SC-08-3.4.2 SC-08-3.4.5; | * Quizzes * Written Exam * Lab Exam * Drawings and | *Chapter 10: pgs. 260-288 |

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| MONTH | Unit | Strand | Core Content | Assessment type | Resources |
|--------------|-------------|---|---|--|--|
| | | Senses – Smell, Taste, Hearing/Equilibruim, Sight; | SC-HS-3.4.8 Writing Stand. #4, 5, 6 Reading Stand. #1, 2, 4, 6, 7 | Colorings * Notebook check *Presentations *Sheep Eye Dissection | *Various Internet Websites *Nervous System Model *Eyeball Model |

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|------------------------|---|---|--|---|--|
| <p>January</p> | <p><u>Unit 3 (contin.)</u></p> <p>11. Endocrine System</p> | <p>11. General Characteristics of Endocrine System; Hormone Action; Control of Hormonal Secretions; Pituitary Gland; Thyroid Gland; Parathyroid Glands; Adrenal Glands; Pancreas; Pineal & Thymus Glands; Stress & Health</p> | <p>SC-08-3.4.1 SC-08-3.4.2 SC-08-3.4.5; SC-HS-3.4.8</p> | <p>* Quizzes * Written Exam * Lab Exam * Drawings and Colorings * Notebook check *Presentations</p> | <p><i>*Chapter 11:</i> pgs. 261-316 <i>*Various</i> Internet Websites</p> |
| | <p><u>Unit 4 Transport</u></p> <p>12. Blood</p> | <p>12. Universal Precautions; Red Blood Cells; White Blood Cells; Platelets; Blood Plasma; Hemostasis; Blood Groups & Transfusions</p> | <p>SC-08-3.4.1 SC-08-3.4.2 SC-08-3.4.5 Writing Stand. #4, 5, 6 Reading Stand. #1, 2, 4, 6, 7</p> | <p>* Quizzes * Written Exam * Lab Exam * Blood Typing Lab * Drawings and Colorings * Notebook check</p> | <p><i>*Chapter 12:</i> pgs. 317-338 <i>*Various</i> Internet Websites <i>*Blood Typing</i> Forensics Lab</p> |
| <p>February</p> | <p>13. Cardiovascular System</p> | <p>13. Structure/Anatomy of the Heart; Path of Blood through Heart; Heart Actions; Cardiac Conduction System; Blood Vessels; Blood Pressure; Paths of Circulation; Arterial & Venous System</p> <p>14. Lymphatic Pathways; Tissue</p> | <p>SC-08-3.4.1 SC-08-3.4.2 SC-08-3.4.5 SC-08-3.4.1</p> | <p>* Quizzes *Pig Heart Dissection * Written Exam * Lab Exam * Drawings and Colorings * Notebook</p> | <p><i>*Chapter 13:</i> pgs. 318-373 <i>*Various</i> Internet Websites <i>*Heart Models & Dissection</i></p> |

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| | <p><u>Unit 4 (cont.)</u></p> <p>14. Lymphatic System & Immunity</p> | <p>Fluid & Lymph; Lymph Movement; Thymus & Spleen; Body Defenses Against Infection; Innate Defenses; Immunity</p> | <p>SC-08-3.4.2 SC-08-3.4.5</p> <p>Writing Stand. #4, 5, 6</p> <p>Reading Stand. #1, 2, 4, 6, 7</p> | <p>check</p> <p>*Chapter 14 same as Chapter 13</p> | <p><i>*Chapter 14:</i> pgs. 374-400 *Various Internet Websites</p> |
| <p>March</p> | <p><u>Unit 5 Absorption & Excretion</u></p> <p>15. Digestive System & Nutrition</p> <p>16. Respiratory System</p> | <p>15. General Characteristics of the Alimentary Canal; Mouth & Teeth; Salivary Glands; Pharynx & Esophagus; Stomach; Pancreas; Liver; Small & Large Intestine; Nutrition & Nutrients</p> <p>16. Organs of the Respiratory System; Breathing Mechanism; Control of Breathing; Alveolar Gas Exchanges; Gas Transport;</p> | <p>SC-08-3.4.1 SC-08-3.4.2 SC-HS-3.4.3</p> <p>SC-08-3.4.1 SC-08-3.4.2 SC-HS-3.4.3</p> <p>Writing Stand. #4, 5, 6,</p> <p>Reading Stand. # 1, 2, 4, 6, 7</p> | <p>* Quizzes * Written Exam(s) * Lab Exam(s) * Drawings and Colorings * Notebook check *Presentations</p> <p>*Chapter 16 same as 15</p> | <p><i>*Chapter 15:</i> pgs. 401-443 *Various Internet Websites *Digestive System Classroom Models</p> <p><i>Chapter 16:</i> pgs. 444-468</p> |
| <p>April</p> | <p>17. Urinary System</p> | <p>17. Kidneys; Urine Formation; Urine Elimination;</p> | <p>SC-08-3.4.1 SC-08-3.4.2 SC-HS-3.4.3</p> | <p>* Quizzes * Written Exam(s) * Lab Exam(s)</p> | <p><i>*Chapter 17:</i> pgs. 469-490 *Kidney Dissection</p> |

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|------------|---|---|--|---|---|
| | 18. Water, Electrolyte, and Acid-Base Balance | 18. Distribution of Body Fluids: Water Balance; Electrolyte Balance; Acid-Base Balance; Acid-Base Imbalances | SC-08-3.4.1 SC-08-3.4.2 SC-HS-3.4.3 Writing Stand. #4, 5, 6 Reading Stand. #1,, 2, 4, 6, 7 | * Drawings and Colorings * Notebook check *Presentations Chapter 18 Same as 17 | *Various Internet Websites *Respiratory System Model(s) <i>Chapter 18:</i> pgs. 491-506 |
| May | 19. Reproductive System 20. Pregnancy, Growth, Development, and Genetics | 19. Organs of the Male Reproductive System; Hormonal Control of Male Reproductive Functions; Organs of the Female Reproductive System; Hormonal Control of Female Reproductive Functions; Mammary Glands; Birth Control; Sexually Transmitted Diseases 20. Pregnancy; Prenatal Period; Postnatal Period; Infertility | SC-08-3.4.1 SC-08-3.4.2 SC-HS-3.4.3 SC-08-3.4.1 SC-08-3.4.2 SC-HS-3.4.3 Writing Stand. #4, 5, 6 Reading Stand. #1, 2, 4, 6, 7 | * Quizzes * Written Exam(s) * Lab Exam(s) * Drawings and Colorings * Notebook check *Presentations | * <i>Chapter 19:</i> pgs. 507-537 *Various Internet Websites *Respiratory System Model(s) *Kidney Model *Urinary System Model *Male and Female Reproductive System Models |