

HUMAN ANATOMY AND PHYSIOLOGY-PACING GUIDE

Week	Topic	Reference Chapter	Activity/Lab	
1	Introduction/Lab Safety	N/A	Poster Activity, Safety Tests	2-Use variety of tools to perform experiments
2	Orientation to Human Body-Basic Anatomical Terminology	1	Lab #1-Working with Anatomical Terminology	1. Organization of the Human Body. 2. Necessary life functions, survival needs
3	Homeostasis in the Human Body	1	Lab#2- The Effect of Exercise on Temperature	2. Necessary life functions, survival needs 3. Homeostasis
4.	Review of Basic Chemistry	2	Poster Activity	4. Chemical composition of matter
5	Review of Cell Structure, Introduction to Tissues	3	Lab #3-Use of a Compound Light Microscope	5. Cell structures 6. Cell processes 7. Characteristics and classifications of major types of body tissues
6	Tissue Types	3	Lab #4- Classification of Tissues	7. Characteristics and classifications of major types of body tissues
7	Integumentary System-Structure/Function of Skin, Hair, Nails	4	Lab #5-Observing Integumentary System Tissues	8. Integumentary System
8	Integumentary System-Regulation of Body Temperature, Disorders of the Integumentary System	4	Lab #6- TBA Article Discussion	3. Homeostasis 9. Body Temperature Regulation 8. Integumentary System
9	Skeletal System-Organization and Basic Functions	5	Lab #7-Bones as Levers	10. Skeletal System
10	Skeletal System-Bone Development, Growth, Repair, and Homeostasis	5	Lab #8-Observing and Classifying Bones	10. Skeletal System

11	Skeletal System- Structure and Classification of Joints, Disorders of Bones and Joints	5	Lab #9-Joint Strapping	10. Skeletal System
12	Skeletal System- Review, Introduction to Muscular System- Types of Body Movements	5,6	None (Shortened Week)	10. Skeletal System 11. Muscular System
13	Muscular System- Contraction and Relaxation of Skeletal Muscle Cells	6	Lab #10-Muscles and Muscle Fatigue	11. Muscular System
14	Muscular System- Microscopic Anatomy, Identification of Skeletal Muscles	6	Activity- Identification of Muscles	11. Muscular System
15	Muscular System- Contraction and Relaxation of Whole Muscles, Smooth and Cardiac Muscle	6	Lab #11-Chicken Wing Dissection	11. Muscular System
16	Nervous System- Organization and Cell Types	7	Poster Activity	12. Nervous System
17	Nervous System- Neuron Structure and Function, Reflexes	7	Lab #12-Testing Reflexes	12. Nervous System
18	Review for Final	1-7	N/A	All of the above
19	FINAL-END OF 1ST		SEMESTER	
20	Nervous System- Structures of the Cerebral Cortex, The Brain in Learning & Memory	7	Lab #2-1 Short Term Memory Tests	12. Nervous System
21	Nervous System- Structures of the Brain, Spinal Cord, Peripheral Nervous System, Disorders	7	Lab #2-2 Brain Dissection	12 Nervous System
22	Special Senses- Structure and Function of the Ear in Hearing and Equilibrium	8	Lab #2-3-Sense of Equilibrium	12.5 Structures, Physiological processes of special senses

23	Special Senses- Structures of the Eye	8	Lab #2-4-Eye Dissection	12.5 Structures, Physiological processes of special senses
24	Special Senses- Physiology and Disorders of Vision, Senses of Taste and Smell	8	Lab #2-5-Visual Tests Lab #2-6 Taste and Smell	12.5 Structures, Physiological processes of special senses
25	Composition, Homeostasis, Development of Blood, Functions of the Cardiovascular System	10	Lab #2-7-Blood Typing	14 Composition, homeostasis, development of blood
26	Structure and Function of the Heart	11	Lab #2-8 Heart Dissection	15 Cardiovascular System
27	Blood Vessels, Disorders of the Cardiovascular System	11	Lab #2-9 Blood Pressure	15 Cardiovascular System
28	Lymphatic System, Nonspecific and Specific Immunity	12	Poster Activity	16 Lymphatic System, Defense Against Pathogens
29	Urinary System-Gross and Microscopic Anatomy of the Kidney	15	Lab #2-10 Kidney Dissection	19 Urinary System and Fluid Balance
30	Urinary System- Control of Blood Composition by the Kidney, Mictruition, Disorders of the Urinary System	15	Class Activity TBA	19 Urinary System and Fluid Balance
31	Respiratory System- Gross and Microscopic Anatomy of the Respiratory System, Mechanics of Breathing	13	Class Activity- Lung Model	17 Respiratory System
32	Respiratory System- Gas Transport, Disorders of the Respiratory System	13	Lab #2-11 Control of Breating	17 Respiratory System
33	Digestive System- Digestive Processes, Anatomy of the Digestive System	14	Presentations for Presentation Project	18 Digestion, Nutrition, Metabolism
34	Digestive System-	14, 9	Mock State	18 Digestion,

	Anatomy of the Digestive System, Disorders Endocrine System-Composition and Action of Hormones		Biology Test	Nutrition, Metabolism 13 Endocrine System
35	Endocrine System- Anatomy and Physiology of Endocrine Glands, Disorders	9	None-State Testing Week	13 Endocrine System
36	Reproductive Systems- Anatomy and Physiology of Male and Female Reproductive Systems	16	Cat Dissection Project	20 Reproductive System
37	Reproductive System- Processes of and Barriers to Fertilization, Embryonic and Fetal Development, Labor and Delivery	16	Cat Dissection Project	20 Reproductive System
38	Review for Finals	7-16	None-Senior Finals	
39	FINALS, CLASSROOM CHECKOUT		END OF 2ND SEMESTER	