

Middlesex County Schools Curriculum Pacing Guide

Grade/Course MHS Anatomy and Physiology

School Year Fall 2012 J. Porter

Time Frame	Unit/SOLs	SOL #	Strand	Essential Knowledge/ Understandings	Date of Common Formative Assessment (i.e. Unit Tests/Benchmark Tests)
Week 1	Introduction to course and Organization at Chemical Level			Organization of body systems General terms of biology Science Prefixes and Suffixes Humans and homeostasis	Quiz End Week Test End of Q1
Week 2	Cell structure and functions			Cell anatomy Cell structure: Nucleus Cell membrane Cell cycle	Quiz End Week Test End of Q1
Week 3	Body tissues			Epithelial Tissue Connective Tissue Membrane function Muscle Tissue Neural Tissue Tissue repair and aging	Quiz End Week Test End of Q1
Week 4	Integumentary system			Epidermis Dermis Subcutaneous Control of Homeostasis Aging in the IS IS and other systems	Quiz End Week Test End of Q1
Week 5	Skeletal System			Bone structure Bone formation and growth Bone injuries and aging	Quiz End Week Test End of Q2

				Axial bones Appendicular bones Joints and articulations SS and other systems	
Week 6	Muscular System			Skeletal Muscles Mechanics of muscles Energetics of Muscles Cardiac and Smooth Muscles Muscle Aging MS and other systems	Quiz End Week Test End of Q2
Week 7	Nervous system			Nerve cells Neuron Function and communication CNS PNS ANS NS and aging NS and other systems	Quiz End Week Test End of Q2
Week 8	Senses and Endocrine System			General Senses Smell and Taste Vision Hearing and equilibrium Aging and senses Hormones Pituitary Gland Thyroid Gland Other Glands Hormonal interactions Aging and ES ES and other systems	Quiz End Week Test End of Q2
Week 9	Blood			Blood function Composition Plasma Red and white blood cells Platelets Clotting	Quiz End Week Test End of Q2

Week 10	Heart and Circulatory System			Heart anatomy Heartbeat Heart output Blood Vessel Structure Circulation physiology Cardiovascular regulation Aging and CS system CS and other systems	Quiz End Week Test End of Q3
Week 11	Lymphatic System			Organization of LS Nonspecific defenses Specific defenses Patterns of IS response LS and other systems	Quiz End Week Test End of Q3
Week 12	Respiratory System			Function of RS Organization of RS Physiology of Respiration Control of Respiration Aging and RS RS and other systems	Quiz End Week Test End of Q3
Week 13	Digestion			Overview of DS Oral Cavity Pharynx and Esophagus Stomach Small Intestine Large intestine Pancreas Liver Gallbladder Digestion Aging and DS DS and other systems	Quiz End Week Test End of Q3
Week 14	Nutrition and metabolism			Cellular metabolism Diet Bioenergetics Aging and nutrition	Quiz End Week Test End of Q3

Week 15	Urinary System			Organization of US Kidneys Urine production Urine transport Fluid balance Aging and US US and other systems	Quiz End Week Test End of Q4
Week 16	Reproduction			Male RS Female RS Physiology of Intercourse Aging and RS RS and other systems	Quiz End Week Test End of Q4
Week 17 & 18	Development and inheritance			Fertilization First trimester Second trimester Third Trimester Labor and Delivery Postnatal Development Genes and chromosomes Inheritance Human Genome Project	Quiz End Week Test End of Q4