

	TERM 1	
Term 1 Dates	MS College and Career Readiness Standards	
WK 1:	Science Engineering Practices	
Aug 6-16		
WK 2:	HAP.1.1 Apply appropriate anatomical terminology when explaining the orientation of	
Aug 19-23	regions, directions, and body planes or sections.	
	Unit Assessment 1	
WK 3:	HAP.1.2 Locate organs and their applicable body cavities and systems.	
Aug 26-30		
WK 4:	HAP.1.3 Investigate the interdependence of the various body systems to each other and to	
Sept 2-6	the body as a whole.	
	Mid-term OR Unit Assessment 2 WK 4.5/ WK 5	
WK 5:	HAP.2.1 Analyze the characteristics of the four main tissue types: epithelial, connective,	
Sept 9-13	muscle, and nervous. Examine tissues using microscopes and other various technologies	
WK 6:	HAP.2.2 Construct a model to demonstrate how the structural organization of cells in a	
Sept 16-20	tissue relates to the specialized function of that tissue	
	Unit Assessment 3	
WK 7:	HAP.2.3 Enrichment: Use an engineering design process to research and develop	
Sept 23-27	medications (i.e., targeted cancer therapy drugs) that target uncontrolled cancer cell	
	reproduction.*	
WK 8:	Review	
Sept 30- Oct 4		
Unit Assessment 4 optional due to BMA		
WK 9:	Benchmark or Unit Assessment	
Oct 7-11		

TERM 1	
Recurring Standards Standards taught the first 4-5 weeks; the mid-term data will indicate remediation is needed.	
WK 5:	HAP.1.1
Sept 9-13	
WK 6:	HAP.1.2
Sept 16-20	
WK 7:	HAP.1.3
Sept 23-27	



Anatomy & mysiology		
	TERM 2	
Term 2 Dates	MS College and Career Readiness Standards	
WK 1:	HAP.3.1 Identify structures and explain the functions of the integumentary system,	
Oct 14-18	including layers of skin, accessory structures, and types of membranes.	
	HAP.3.2 Investigate specific mechanisms (e.g., feedback and temperature regulation)	
	through which the skin maintains homeostasis	
WK 2:	HAP.3.3 Research and analyze the causes and effects of various pathological conditions	
Oct 21-25	(e.g., burns, skin cancer, bacterial/viral infections, and chemical dermatitis).	
	HAP.3.4 Enrichment: Use an engineering design process to design and model/simulate	
	effective treatments for skin disorders (e.g., tissue grafts).*	
	Unit Assessment 1	
WK 3:	HAP.4.1 Use models to compare the structure and function of the skeletal system.	
Oct 28- Nov 1	HAP.4.2 Develop and use models to identify and classify major bones as part of the	
	appendicular or axial skeleton	
WK 4:	HAP.4.3 Identify and classify types of joints and their movement.	
Nov 4-8	HAP.4.4 Demonstrate an understanding of the growth and development of the skeletal	
	system, differentiating between endochondral and intramembranous ossification.	
	HAP.4.5 Construct explanations detailing how mechanisms (e.g., Ca2+ regulation) are	
	used by the skeletal system to maintain homeostasis.	
	Mid-term OR Unit Assessment 2 WK 4.5/ WK 5	
WK 5:	HAP.4.6 Research and analyze various pathological conditions (e.g., bone fractures,	
Nov 11-15	osteoporosis, bone cancers, various types of arthritis, and carpal tunnel syndrome).	
	HAP.4.7 Enrichment: Use an engineering design process to develop, model, and test	
	effective treatments for bone disorders (i.e., prosthetics).*	
WK 6:	HAP.5.1 Develop and use models to illustrate muscle structure, muscle locations and	
Nov 18-22	groups, actions, origins, and insertions.	
	HAP.5.2 Describe the structure and function of the skeletal muscle fiber and the motor	
	unit.	
	HAP.5.3 Explain the molecular mechanism of muscle contraction and relaxation	
Unit Assessment 3		
WK 7:	HAP.5.4 Use models to locate the major muscles and investigate the movements	
Dec 2-6	controlled by each muscle.	
	HAP.5.5 Compare and contrast the anatomy and physiology of the three types of muscle	
	tissue.	

	HAP.5.6 Use technology to plan and conduct an investigation that demonstrates the physiology of muscle contraction, muscle fatigue, or muscle tone. Collect and analyze data to interpret results, then explain and communicate conclusions.
WK 8:	HAP.5.7 Research and analyze the causes and effects of various pathological conditions,
Dec 9-13	(e.g., fibromyalgia, muscular dystrophy, cerebral palsy, muscle cramps/strains, and tendonitis).
	HAP.5.8 Enrichment: Use an engineering design process to develop effective ergonomic
	devices to prevent muscle fatigue and strain (e.g., carpal tunnel, exoskeletons for
	paralysis, or training plans to prevent strains/sprains/cramps).*
Unit Assessment 4 optional due to BMA	
WK 9:	Benchmark OR Unit Assessment
Dec 16-20	

TERM 2	
Recurring Standards	
Standards taught the first 4-5 weeks; the mid-term data will indicate remediation is needed.	
WK 5:	HAP.3.1, HAP.3.2 & HAP.3.3
Nov 11-15	
WK 6:	HAP.4.1 & HAP.4.2
Nov 18-22	
WK 7:	HAP.4.3, HAP.4.4 & HAP.4.5
Dec 2-6	



TERM 3	
Term 3 Dates	MS College and Career Readiness Standards
WK 1:	HAP.6.1 Describe and evaluate how the nervous system functions and interconnects with
Jan 6-10	all other body systems.
	HAP.6.2 Analyze the structure and function of neurons and their supporting neuroglia
	cells (e.g. astrocytes, oligodendrocytes, Schwann cells, microglial).
	HAP.6.3 Discuss the structure and function of the brain and spinal cord.
WK 2:	HAP.6.4 Compare and contrast the structures and functions of the central and peripheral
Jan 13-17	nervous systems. Investigate how the systems interact to maintain homeostasis (e.g.,
	reflex responses, sensory responses).
	HAP.6.5 Enrichment: Plan and conduct an experiment to test reflex response rates under
	varying conditions. Using technology, construct graphs in order to analyze and interpret
	data to explain and communicate conclusions.
	HAP.6.6 Describe the major characteristics of the autonomic nervous system. Contrast the
	roles of the sympathetic and parasympathetic nervous systems in maintaining
	homeostasis
	Unit Assessment 1
WK 3:	HAP.6.7 Describe the structure and function of the special senses (i.e., vision, hearing,
Jan 20-24	taste, and olfaction).
	HAP.6.8 Research and analyze the causes and effects of various pathological conditions
	(e.g., addiction, depression, schizophrenia, Alzheimer's, sports-related chronic traumatic encephalopathy [CTE], dementia, chronic migraine, stroke, and epilepsy).
	HAP.6.9 Enrichment: Use an engineering design process to develop, model, and test
	preventative devices for neurological injuries and/or disorders (e.g., concussion-proof
	helmets or possible medications for addiction and depression).*
WK 4:	HAP.7.1 Obtain, evaluate, and communicate information to illustrate that the endocrine
Jan 27-31	glands secrete hormones that help the body maintain homeostasis through feedback
	mechanisms.
	HAP.7.2 Discuss the function of each endocrine gland and the various hormones secreted.
	HAP.7.3 Model specific mechanisms through which the endocrine system maintains
	homeostasis (e.g., insulin/glucagon and glucose regulation; T3 / T4 and metabolic rates;
	calcitonin/parathyroid and calcium regulation; antidiuretic hormone and water balance;
	growth hormone; and cortisol and stress)
Mid-term OR Unit Assessment 2 WK 4.5/ WK 5	
WK 5:	HAP.7.4 Research and analyze the effects of various pathological conditions (e.g., diabetes
Feb 3-7	mellitus, pituitary dwarfism, Graves' disease, Cushing's syndrome, hypothyroidism, and
	obesity).

	HAP.7.5 Enrichment: Use an engineering design process to develop effective treatments	
	for endocrine disorders (e.g., methods to regulate hormonal imbalance).*	
WK 6:	HAP.8.1 Compare and contrast the structure and function of the male and female	
Feb 10-14	reproductive systems.	
	HAP.8.2 Describe the male reproductive anatomy and relate structure to sperm	
	production and release.	
	HAP.8.3 Describe the female reproductive anatomy and relate structure to egg production	
	and release.	
	Unit Assessment 3	
WK 7:	HAP.8.4 Construct explanations detailing the role of hormones in the regulation of sperm	
Feb 17-21	and egg development. Analyze the role of negative feedback in regulation of the female	
	menstrual cycle and pregnancy.	
	HAP.8.5 Evaluate and communicate information about various contraceptive methods to	
	prevent fertilization and/or implantation	
WK 8:	HAP.8.6 Describe the changes that occur during embryonic/fetal development, birth, and	
Feb 24-28	the growth and development from infancy, childhood, and adolescence to adult.	
	HAP.8.7 Research and analyze the causes and effects of various pathological conditions	
	(e.g., infertility, ovarian cysts, endometriosis, sexually transmitted diseases, and ectopic	
	pregnancy). Research current treatments for infertility	
	Unit Assessment 4 optional due to BMA	
WK 9:	BMA OR Unit Assessment	
Mar 3-7		

TERM 3		
Recurring Standards		
St	Standards taught the first 4-5 weeks; the mid-term data will indicate remediation is needed.	
WK 5:	HAP.6.1, HAP.6.2 & HAP.6.3	
Feb 3-7		
WK 6:	HAP.6.4 & HAP.6.6	
Feb 10-14		
WK 7:	HAP.6.7 & HAP.6.8	
Feb 17-21		



TERM 4	
Term 4 Dates	MS College and Career Readiness Standards
WK 1:	HAP.9 Students will analyze the structure and functions of blood and its role in
March 17-21	maintaining homeostasis.
WK 2:	HAP.10 Students will investigate the structures and functions of the cardiovascular
March 24-28	system, including the cause and effect of diseases and disorders
WK 3:	HAP. 11 Students will investigate the structures and functions of the lymphatic system,
March 31-	including the cause and effect of diseases and disorders.
April 4	
WK 4:	HAP. 12 Students will investigate the structures and functions of the respiratory system,
April 7-11	including the cause and effect of diseases and disorders.
WK 5:	HAP.13 Students will investigate the structures and functions of the digestive system,
April 14-18	including the cause and effect of diseases and disorders
WK 6:	HAP.13 Students will investigate the structures and functions of the digestive system,
April 21-25	including the cause and effect of diseases and disorders.
WK 7:	HAP.14 Students will investigate the structures and functions of the urinary system,
April 28- May 2	including the cause and effect of diseases and disorders.
WK 8:	State Testing
May 5-9	
WK 9:	
May 12-21	

	TERM 4
Recurring Standards	
Sta	andards taught the first 4-5 weeks; the mid-term data will indicate remediation is needed.
WK 5:	
April 14-18	
WK 6:	
April 21-25	
WK 7:	
April 28- May 2	