

Unit 1: Anatomical Terminology			
Introduction to Anatomy			
3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A.3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A.2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B.1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Describe the relationships between components	
		Use a model to illustrate how the interactions between systems provides specific functions in multicellular organisms	
		Make a distinction between the accuracy of the model and actual body systems and functions it represents	

Unit 2: Organelles and Functions

Cell Structure and Function

3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A.3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A.2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B.1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Describe the relationships between components	
		Make a distinction between the accuracy of the model and the actual body systems and functions it represents	

Unit 3: Tissue Types and Membranes			
Tissues			
3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A.3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A.2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B.1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Develop a model to identify and describe the relevant parts of body systems in multicellular organisms	
		Describe the relationships between components	
		Make a distinction between the accuracy of the model and the actual body systems and functions it represents	

Unit 4: Integumentary Systems and Accessories			
Integumentary System			
3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A.3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A.2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B.1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Describe the relationship between components	
		Make the distinction between the accuracy of the model and actual body systems and functions it represents	

Unit 5: Bone formation and Skeletal Structure			
Skeletal System			
3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A.3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A.2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B.1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Develop a model to identify and describe the relevant parts of body systems in multicellular organisms	
		Describe the relationships between components	
		Use a model to illustrate how the interactions between systems provides specific functions in multicellular organisms	
		Make a distinction between the accuracy of the model and actual body systems and functions it represents	

Unit 6: Muscle structure, Muscle function			
Muscular System			
3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A.3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A.2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B.1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Develop a model to identify and describe the relevant parts of body systems in multicellular organisms	
		Describe the relationships between components	
		Use a model to illustrate how the interactions between systems provides specific functions in multicellular organisms	

Unit 7: Blood function, Nutrient transport though body

Transport System

3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A.3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A.2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B.1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Describe the relationships between components	
		Use a model to illustrate how the interactions between systems provides specific functions in multicellular organisms	
		Make a distinction between the accuracy of the model and actual body systems and functions it represents	

Unit 8: Immune response, relationship to circulatory system

Lymphatic System

3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A. 3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A. 2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B. 1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Develop a model to identify and describe the relevant parts of body systems in multicellular organisms	
		Describe the relationships between components	
		Make a distinction between the accuracy of the model and actual body systems and functions it represents	

Unit 9: Brain Structure, nerve structure, nervous feedback

Nervous System

3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A.3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A.2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B.1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Describe the relationships between components	
		Use a model to illustrate how the interactions between systems provides specific functions in multicellular organisms	

Unit 10: Eye Structure, Ear Structure, peripheral nervous system, central nervous system

Senses

3 Weeks			Assessed
Priority Standard(s)	9-12.LS1.A. 3	From Molecules to Organisms: Structure and Processes	
Supporting Standard(s)	9-12.LS1.A. 2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms. [Clarification Statement: Emphasis is on functions at the organism system level such as nutrient uptake, water delivery, and organism movement in response to stimuli.]	
	9-12.LS1.B. 1	Develop and use models to communicate the role of mitosis, cellular division, and differentiation in producing and maintaining complex organisms. [Clarification Statement: Major events of the cell cycle include cell growth, DNA replication, preparation for division, separation of chromosomes, and separation of cell contents.]	
		Develop a model to identify and describe the relevant parts of body systems in multicellular organisms	
		Describe the relationships between components	
		Use a model to illustrate how the interactions between systems provides specific functions in multicellular organisms	