

		classification systems.	different kingdoms of bacteria.	
Week 5	Chapter 27 - Prokaryotes	9. Differentiate between the previous five-kingdom and current six-kingdom classification systems.	Understand the basic characteristics of prokaryotes. 1. Distinguish between the different kingdoms of bacteria	Lab: Identifying Types of Bacteria
Week 6	Chapter 27 - Prokaryotes	9. Differentiate between the previous five-kingdom and current six-kingdom classification systems.	1. Understand the basic characteristics of prokaryotes. 2. Distinguish between the different kingdoms of bacteria	Lab: Identifying Types of Bacteria
Week 7	Chapter 28 - Protista	9. Differentiate between the previous five-kingdom and current six-kingdom classification systems.	1. Understand the basic characteristics of the kingdom protista. 2. Identifying ways in which organisms from the Monera, Protista, and Fungi kingdoms are beneficial and harmful	Microorganisms Lab

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Week Number	Chapter	COS	Objectives	Strategies / Materials Needed
Week 8	Chapter 28 - Protista	9. Differentiate between the previous five-kingdom and current six-kingdom classification systems.	<i>SWBAT</i> 1. Understand the basic characteristics of the kingdom protista. 2. Identifying ways in which organisms from the Monera, Protista, and Fungi kingdoms are beneficial and harmful	Microorganisms Lab
Week 9	Chapter 28 - Protista	9. Differentiate between the previous five-kingdom and current six-kingdom classification systems.	1. Understand the basic characteristics of the kingdom protista. 2. Identifying ways in which organisms from the Monera, Protista, and Fungi kingdoms are beneficial and harmful	Microorganisms Lab
Week 10	Chapter 31 – Fungi	9. Differentiate between the previous five-kingdom and current six-kingdom	1. Understand the basic characteristics of the kingdom fungi.	Lab: Fungi: mold, mildew

		classification systems.	2. Identifying ways in which organisms from the Monera, Protista, and Fungi kingdoms are beneficial and harmful	
<i>Week 11</i>	Chapter 31 – Fungi	9. Differentiate between the previous five-kingdom and current six-kingdom classification systems.	1. Understand the basic characteristics of the kingdom fungi. 2. Identifying ways in which organisms from the Monera, Protista, and Fungi kingdoms are beneficial and harmful	Lab: Fungi: mold, mildew
<i>Week 12</i>	Chapter 31 – Fungi	9. Differentiate between the previous five-kingdom and current six-kingdom classification systems.	1. Understand the basic characteristics of the kingdom fungi. 2. Identifying ways in which organisms from the Monera, Protista, and Fungi kingdoms are beneficial and harmful	Lab: Fungi: mold, mildew
<i>Week 13</i>	Chapters 29 – 30 – Introduction to Plants	10. Distinguish between monocots and dicots, angiosperms and gymnosperms, and vascular and nonvascular plants.	1. Describing the histology of roots, stems, leaves, and flowers	Lab: Plant Structure
<i>Week 14</i>	Chapters 29 – 30 – Introduction to Plants	10. Distinguish between monocots and dicots, angiosperms and gymnosperms, and vascular and nonvascular plants.	1. Describing the histology of roots, stems, leaves, and flowers	Lab: Plant Structure

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Week	Chapter	COS	Objectives	Strategies / Materials Needed
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Number				
Week 15	Chapters 29 – 30 – Introduction to Plants	10. Distinguish between monocots and dicots, angiosperms and gymnosperms, and vascular and nonvascular plants.	<i>SWBAT</i> 1. Describing the histology of roots, stems, leaves, and flowers	Lab: Plant Structure
Week 16	Chapters 35 & 39 - Plant Form & Function	10. Distinguish between monocots and dicots, angiosperms and gymnosperms, and vascular and nonvascular plants.	1. Recognizing chemical and physical adaptations of plants Examples: chemical—foul odor, bitter taste, toxicity; physical—spines, needles, broad leaves	Lab: Plant Reproduction
Week 17	Chapters 35 & 39 - Plant Form & Function	10. Distinguish between monocots and dicots, angiosperms and gymnosperms, and vascular and nonvascular plants.	1. Recognizing chemical and physical adaptations of plants Examples: chemical—foul odor, bitter taste, toxicity; physical—spines, needles, broad leaves	Lab: Plant Reproduction
Week 18	Chapters 35 & 39 - Plant Form & Function	10. Distinguish between monocots and dicots, angiosperms and gymnosperms, and vascular and nonvascular plants.	1. Recognizing chemical and physical adaptations of plants Examples: chemical—foul odor, bitter taste, toxicity; physical—spines, needles, broad leaves	Lab: Plant Reproduction
Week 19	Chapter 32 – Introduction to Animals	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion.	Differentiate between: skeletal structure—vertebrates, invertebrates; fertilization—external, internal; reproduction—sexual, asexual; body symmetry—bilateral, radial, asymmetrical; body coverings—feathers, scales, fur; locomotion—cilia, flagella, pseudopodia	Body Symmetry Activity
Week 20	Chapter 32 – Introduction to Animals	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion.	Differentiate between: skeletal structure—vertebrates, invertebrates; fertilization—external, internal; reproduction—sexual, asexual; body symmetry—bilateral, radial, asymmetrical; body coverings—feathers, scales, fur; locomotion—cilia, flagella, pseudopodia	Animal Identification Activity

<i>Week 21</i>	Chapter 32 – Introduction to Animals	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion.	Differentiate between: skeletal structure—vertebrates, invertebrates; fertilization—external, internal; reproduction—sexual, asexual; body symmetry—bilateral, radial, asymmetrical; body coverings—feathers, scales, fur; locomotion—cilia, flagella, pseudopodia	Animal Dissections
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Week Number	Chapter	COS	Objectives	Strategies / Materials Needed
<i>Week 22</i>	Chapter 32 – Introduction to Animals	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion.	<i>SWBAT</i> Differentiate between: skeletal structure—vertebrates, invertebrates; fertilization—external, internal; reproduction—sexual, asexual; body symmetry—bilateral, radial, asymmetrical; body coverings—feathers, scales, fur; locomotion—cilia, flagella, pseudopodia	Animal Dissections
<i>Week 23</i>	Chapter 33 - Invertebrates	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion.	Distinguish the characteristics of invertebrates.	Animal Dissections
<i>Week 24</i>	Chapter 33 - Invertebrates	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion.	Distinguish the characteristics of invertebrates.	Animal Dissections
<i>Week 25</i>	Chapter 33 - Invertebrates	11. Classify animals according to type of skeletal structure, method of fertilization and	Distinguish the characteristics of invertebrates.	Animal Dissections

		reproduction, body symmetry, body coverings, and locomotion.		
<i>Week 26</i>	Chapter 33 - Invertebrates	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion.	Distinguish the characteristics of invertebrates.	Animal Dissections
<i>Week 27</i>	Chapters 34 - Vertebrates	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion. 12. Describe protective adaptations of animals, including mimicry, camouflage, beak type, migration, and hibernation.	Distinguish the characteristics of vertebrates.	Animal Dissections
<i>Week 28</i>	Chapters 34 - Vertebrates	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion. 12. Describe protective adaptations of animals, including mimicry, camouflage, beak type, migration, and hibernation.	Distinguish the characteristics of vertebrates.	Animal Dissections

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Week Number	Chapter	COS	Objectives	Strategies / Materials Needed
Week 29	Chapters 34 - Vertebrates	Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion. 12. Describe protective adaptations of animals, including mimicry, camouflage, beak type, migration, and hibernation.	<i>SWBAT</i> Distinguish the characteristics of vertebrates.	Animal Dissections
Week 30	Chapters 34 - Vertebrates	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion. 12. Describe protective adaptations of animals, including mimicry, camouflage, beak type, migration, and hibernation.	Distinguish the characteristics of vertebrates.	Animal Dissections
Week 31	Chapter 40 – Animal Form & Function	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion. 12. Describe protective adaptations of animals, including mimicry, camouflage, beak type, migration, and hibernation.	1. Distinguish animal form & function at all levels of organization. 2. Explain how animals regulate internal environment. 3. Understand the physical laws & the environment that constrains animal size & shape.	Animal Video
Week 32	Chapter 40 – Animal Form & Function	11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry,	1. Distinguish animal form & function at all levels of organization. 2. Explain how animals regulate internal environment.	Shelter, Space, & Food Activity

		<p>body coverings, and locomotion.</p> <p>12. Describe protective adaptations of animals, including mimicry, camouflage, beak type, migration, and hibernation.</p>	<p>3. Understand the physical laws & the environment that constrains animal size & shape.</p>	
Week 33	Chapter 40 – Animal Form & Function	<p>11. Classify animals according to type of skeletal structure, method of fertilization and reproduction, body symmetry, body coverings, and locomotion.</p> <p>12. Describe protective adaptations of animals, including mimicry, camouflage, beak type, migration, and hibernation.</p>	<p>1. Distinguish animal form & function at all levels of organization.</p> <p>2. Explain how animals regulate internal environment.</p> <p>3. Understand the physical laws & the environment that constrains animal size & shape.</p>	Endangered Species Project
Week 34	Chapters 50 & 54 - Ecology	<p>13. Trace the flow of energy as it decreases through the trophic levels from producers to the quaternary level in food chains, food webs, and energy pyramids.</p> <p>14. Trace biogeochemical cycles through the environment, including water, carbon, oxygen, and nitrogen.</p> <p>15. Identify biomes based on environmental factors and native organisms.</p>	<p>1. Describe the interdependence of biotic and abiotic factors in an ecosystem</p> <p>2. Contrast autotrophs and heterotrophs</p> <p>3. Describe the niche of decomposers</p> <p>4. Use the ten percent law to explain the decreasing availability of energy through the trophic levels</p>	Food Chain Activity
Week 35	Chapters 50 & 54 - Ecology	<p>13. Trace the flow of energy as it decreases through the trophic levels from producers to the quaternary level in food chains, food webs, and energy pyramids.</p> <p>14. Trace biogeochemical cycles through the environment, including water, carbon, oxygen, and nitrogen.</p> <p>15. Identify biomes based on environmental factors and native organisms.</p>	<p>1. Describe the interdependence of biotic and abiotic factors in an ecosystem</p> <p>2. Contrast autotrophs and heterotrophs</p> <p>3. Describe the niche of decomposers</p> <p>4. Use the ten percent law to explain the decreasing availability of energy through the trophic levels</p>	Tracing Energy in Food Web Activity

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Week Number	Chapter	COS	Objectives	Strategies / Materials Needed
Week 36	Chapters 50 & 54 - Ecology	13. Trace the flow of energy as it decreases through the trophic levels from producers to the quaternary level in food chains, food webs, and energy pyramids. 14. Trace biogeochemical cycles through the environment, including water, carbon, oxygen, and nitrogen. 15. Identify biomes based on environmental factors and native organisms.	<i>SWBAT</i> 1. Describe the interdependence of biotic and abiotic factors in an ecosystem 2. Contrast autotrophs and heterotrophs 3. Describe the niche of decomposers 4. Use the ten percent law to explain the decreasing availability of energy through the trophic levels	Energy in the Ecosystem Activity