Teacher: Ericka R. Woodson | Week of: 3/17/2025-3/21/2025 | Subject: 7th Grade- Life Science | Period: 1st-6th

	OBJECTIVES	ACTIVITIES	RESOURCES	HOMEWORK	EVALUATION	STANDARDS
MON	The student will learn about…. Ecosystems: Interactions, Energy, & Dynamics • Matter & Energy Flow • Population Dynamics • Interdependent Relationships • Biodiversity	**Bell Ringer**: How do the movements of matter and energy differ? Lab Wrap-Up: Organizing Animals 20.3 Content Vocabulary Key Concepts A & B	✓ Textbook Laboratory Experience Video Slides / Pictures Assessment ✓ Handout / Worksheet ✓ Chart / Graph Map / Model ✓ Chromebook/Computer PowerPoint Other:	Complete Lab Journal Due 3.1.9.2025	Oral Responses ✓ Homework ✓ Notebook Quiz Major Test ✓ Project/Report/Presentation ✓ Daily Work Observation ✓ Worksheet/Handout ✓ Lab/ Lab Composition ✓ Class/Group Participation	**S5.** Construct an explanation of how the cycling of matter between abiotic and biotic parts of ecosystems demonstrates the flow of energy and the conservation of matter, including the carbon, nitrogen, and water cycles. **S6.** Analyze and interpret data to predict how environmental conditions, genetic factors, and resource availability will impact the growth of individual organisms and populations of organisms in an ecosystem. **S7.** Analyze and interpret data to explain how density-independent and density-dependent limiting factors in an ecosystem can lead to shifts in populations. **S8.** Construct an explanation that predicts patterns of interactions between and among organisms in different ecosystems. **S9.** Design a solution to maintain biodiversity and ecosystem services in a given scenario. Examples: considering economic and social factors when making decisions about purifying water, recycling nutrients, preventing soil erosion, improving conditions for threatened and endangered species **S10.** Obtain, evaluate, and communicate information about characteristic animal behaviors and specialized plant structures and their effect on the probability of successful reproduction. Examples: building nest to protect young from cold, flower characteristics that attract pollinators
TUE	The student will learn about…. Ecosystems: Interactions, Energy, & Dynamics • Matter & Energy Flow • Population Dynamics • Interdependent Relationships • Biodiversity	**Bell Ringer:** How is the movement of energy in the ecosystem modeled? Movement of Energy in Ecosystems • Producers • Consumers	✓ Textbook ✓ Laboratory Experience Video Slides / Pictures Assessment ✓ Handout / Worksheet Chart / Graph Map / Model ✓ Chromebook/Computer PowerPoint Other:	Study for Test	Oral Responses ✓ Homework ✓ Notebook Quiz Major Test ✓ Project/Report/Presentation ✓ Daily Work Observation ✓ Worksheet/Handout Lab/ Lab Composition ✓ Class/Group Participation	**S5.** Construct an explanation of how the cycling of matter between abiotic and biotic parts of ecosystems demonstrates the flow of energy and the conservation of matter, including the carbon, nitrogen, and water cycles. **S6.** Analyze and interpret data to predict how environmental conditions, genetic factors, and resource availability will impact the growth of individual organisms and populations of organisms in an ecosystem. **S7.** Analyze and interpret data to explain how density-independent and density-dependent limiting factors in an ecosystem can lead to shifts in populations. **S8.** Construct an explanation that predicts patterns of interactions between and among organisms in different ecosystems. **S9.** Design a solution to maintain biodiversity and ecosystem services in a given scenario. Examples: considering economic and social factors when making decisions about purifying water, recycling nutrients, preventing soil erosion, improving conditions for threatened and endangered species **S10.** Obtain, evaluate, and communicate information about characteristic animal behaviors and specialized plant structures and their effect on the probability of successful reproduction. Examples: building nest to protect young from cold, flower characteristics that attract pollinators
WED	The student will learn about…. Ecosystems: Interactions, Energy, & Dynamics • Matter & Energy Flow • Population Dynamics • Interdependent Relationships • Biodiversity	**Bell Ringer:** What materials do produces use to make food during chemosynthesis? Food Chains Food Webs Energy Pyramids	✓ Textbook Laboratory Experience ✓ Video Slides / Pictures Assessment ✓ Handout / Worksheet Chart / Graph Map / Model ✓ Chromebook/Computer ✓ PowerPoint Other:	Study for Test	Oral Responses ✓ Homework ✓ Notebook Quiz Major Test ✓ Project/Report/Presentation ✓ Daily Work Observation ✓ Worksheet/Handout Lab/ Lab Composition ✓ Class/Group Participation	**S5.** Construct an explanation of how the cycling of matter between abiotic and biotic parts of ecosystems demonstrates the flow of energy and the conservation of matter, including the carbon, nitrogen, and water cycles. **S6.** Analyze and interpret data to predict how environmental conditions, genetic factors, and resource availability will impact the growth of individual organisms and populations of organisms in an ecosystem. **S7.** Analyze and interpret data to explain how density-independent and density-dependent limiting factors in an ecosystem can lead to shifts in populations. **S8.** Construct an explanation that predicts patterns of interactions between and among organisms in different ecosystems. **S9.** Design a solution to maintain biodiversity and ecosystem services in a given scenario. Examples: considering economic and social factors when making decisions about purifying water, recycling nutrients, preventing soil erosion, improving conditions for threatened and endangered species **S10.** Obtain, evaluate, and communicate information about characteristic animal behaviors and specialized plant structures and their effect on the probability of successful reproduction. Examples: building nest to protect young from cold, flower characteristics that attract pollinators

THUR	The student will learn about…. Ecosystems: Interactions, Energy, & Dynamics • Matter & Energy Flow • Population Dynamics • Interdependent Relationships • Biodiversity	**Bell Ringer:** How does a food chain model energy flow? Test Review: Q & A Session	✓ Textbook Laboratory Experience ✓ Video Slides / Pictures ✓ Assessment ✓ Handout / Worksheet Chart / Graph Map / Model ✓ Chromebook/Computer PowerPoint Other:	Study for Test	Oral Responses ✓ Homework ✓ Notebook Quiz Major Test ✓ Project/Report/Presentation ✓ Daily Work Observation ✓ Worksheet/Handout Lab/ Lab Composition ✓ Class/Group Participation	**S5.** Construct an explanation of how the cycling of matter between abiotic and biotic parts of ecosystems demonstrates the flow of energy and the conservation of matter, including the carbon, nitrogen, and water cycles. **S6.** Analyze and interpret data to predict how environmental conditions, genetic factors, and resource availability will impact the growth of individual organisms and populations of organisms in an ecosystem. **S7.** Analyze and interpret data to explain how density-independent and density-dependent limiting factors in an ecosystem can lead to shifts in populations. **S8.** Construct an explanation that predicts patterns of interactions between and among organisms in different ecosystems. **S9.** Design a solution to maintain biodiversity and ecosystem services in a given scenario. Examples: considering economic and social factors when making decisions about purifying water, recycling nutrients, preventing soil erosion, improving conditions for threatened and endangered species **S10.** Obtain, evaluate, and communicate information about characteristic animal behaviors and specialized plant structures and their effect on the probability of successful reproduction. Examples: building nest to protect young from cold, flower characteristics that attract pollinators
FRI	The student will learn about…. Ecosystems: Interactions, Energy, & Dynamics • Matter & Energy Flow • Population Dynamics • Interdependent Relationships • Biodiversity	**Bell Ringer:** How does the amount of available energy change at each trophic level? Ch. 20 Test	✓ Textbook Laboratory Experience Video Slides / Pictures Assessment ✓ Handout / Worksheet Chart / Graph Map / Model ✓ Chromebook/Computer ✓ PowerPoint Other:	Study for Test	Oral Responses ✓ Homework ✓ Notebook Quiz Major Test ✓ Project/Report/Presentation ✓ Daily Work Observation ✓ Worksheet/Handout Lab/ Lab Composition ✓ Class/Group Participation	**S5.** Construct an explanation of how the cycling of matter between abiotic and biotic parts of ecosystems demonstrates the flow of energy and the conservation of matter, including the carbon, nitrogen, and water cycles. **S6.** Analyze and interpret data to predict how environmental conditions, genetic factors, and resource availability will impact the growth of individual organisms and populations of organisms in an ecosystem. **S7.** Analyze and interpret data to explain how density-independent and density-dependent limiting factors in an ecosystem can lead to shifts in populations. **S8.** Construct an explanation that predicts patterns of interactions between and among organisms in different ecosystems. **S9.** Design a solution to maintain biodiversity and ecosystem services in a given scenario. Examples: considering economic and social factors when making decisions about purifying water, recycling nutrients, preventing soil erosion, improving conditions for threatened and endangered species **S10.** Obtain, evaluate, and communicate information about characteristic animal behaviors and specialized plant structures and their effect on the probability of successful reproduction. Examples: building nest to protect young from cold, flower characteristics that attract pollinators