

Week 3

Monday	Tuesday	Wednesday	Thursday	Friday
09/01/2025 LABOR DAY HOLIDAY - No School	09/02/2025 Block 5 Warm-up: students listen to short podcast about Climate case in Montana and participate in a brief class discussion Lecture: students learn about the movement of energy within an ecosystem and are introduced to GPP, NPP and respiration Independent/group work time: students complete practice problems where they calculate NPP within an ecosystem	09/23/2025 Block 6 Students watch Chasing Carbon Zero Video and answer questions Students use remaining class time to work on ecological footprint graphic	09/24/2025 Block 6 Students watch Chasing Carbon Zero Video and answer questions Students use remaining class time to work on ecological footprint graphic	09/25/2025 Block 7 Warm-up: Students watch a short video about the Carbon Cycle and answer questions in their packets Lecture: Students learn about different Biogeochemical cycles in a brief, introductory lecture Quiz: Students take a group quiz covering the material that they have learned so far Remaining class: Students work on their ecological footprint graphic or answer questions about the cycles in their packets

Week 4

Monday	Tuesday	Wednesday	Thursday	Friday
Block 7 1:30PM-3:00PM 09/08/2025 Warm-up: Students watch a short video about the Carbon Cycle and answer questions in their packets Lecture: Students learn about different Biogeochemical cycles in a brief, introductory lecture Quiz: Students take a group quiz covering the material that they have learned so far Remaining class: Students work on their ecological footprint graphic or answer questions about the cycles in their packets	Block 8 3:05 PM- 4:35 PM 09/09/2025 Choice Board: Students explore the Nitrogen Cycle and Carbon Cycle through a choice board activity All students are required to complete activities where they watch videos/ view interactive diagrams and take notes over the Carbon Cycle and the Nitrogen Cycle - They will be provided a template table to take notes Students will choose between different review game activities to assess their knowledge over the Nitrogen Cycle Students will choose between different activities that dive deeper into real world phenomena related to the carbon cycle.	Block 8 1:30PM-3:00PM 09/10/2025 Choice Board: Students explore the Nitrogen Cycle and Carbon Cycle through a choice board activity All students are required to complete activities where they watch videos/ view interactive diagrams and take notes over the Carbon Cycle and the Nitrogen Cycle - They will be provided a template table to take notes Students will choose between different review game activities to assess their knowledge over the Nitrogen Cycle Students will choose between different activities that dive deeper into real world phenomena related to the carbon cycle.	Block 9 3:05 PM-4:35 PM 09/11/2025 Lecture with peardeck: Students will learn about different species interactions and answer some questions using peardeck Students work in groups to do an ecoservices card sort. This helps them learn what the different types of ecosystem services are and examples of each. Students watch “How wolves change rivers” video and answer some questions in their packet Students read “thinking like a mountain” and discuss Work time: Students complete work in their packets over biogeochemical cycles	Block 9 1:30PM-3:00PM 09/12/2025 Lecture with peardeck: Students will learn about different species interactions and answer some questions using peardeck Students work in groups to do an ecoservices card sort. This helps them learn what the different types of ecosystem services are and examples of each. Students watch “How wolves change rivers” video and answer some questions in their packet Students read “thinking like a mountain” and discuss Work time: Students complete work in their packets over biogeochemical cycles

	Nutrient Cycling in the Serengeti game: students will model the importance of soil microbes and detritivores through a card game	Nutrient Cycling in the Serengeti game: students will model the importance of soil microbes and detritivores through a card game		
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Week 5

Monday	Tuesday	Wednesday	Thursday	Friday
Block 10A 1:30PM-3:00PM 09/15/2025 Students take a group quiz over content they have learned so far Students review material for their test • Gimkit over biogeochemical cycles • Review most missed questions from the last quiz Students have time to complete the extra credit review for their test and finish any pages in their packet	Block 10B 3:05 PM- 4:35 PM 09/16/2025 Students take a group quiz over content they have learned so far Students review material for their test • Gimkit over biogeochemical cycles • Review most missed questions from the last quiz Students have time to complete the extra credit review for their test and finish any pages in their packet	Block 11A 1:30PM-3:00PM 09/17/2025 TEST OVER ALL CONTENT THROUGH BLOCK 9	Block 11B 3:05 PM- 4:35 PM 09/18/2025 TEST OVER ALL CONTENT THROUGH BLOCK 9	Block 12B 3:05 PM- 4:35 PM 09/19/2025 Biological Diversity Lecture Review of Experimental Design Lecture and practice questions Nature Walk: take the students on a walk around campus and talk about the watershed, geology, invasive species

Week 6

Monday	Tuesday	Wednesday	Thursday	Friday
09/22/2025 STAFF DEVELOPMENT DAY	09/23/2025 STAFF DEVELOPMENT DAY!	Block 12A 1:30PM-3:00PM 09/24/2025 Biological Diversity Lecture Review of Experimental Design Lecture and practice questions Nature Walk: take the students on a walk around campus and talk about the watershed, geology, invasive species	Block 13B 3:05 PM- 4:35 PM 09/25/2025 Invasive species of Texas Lecture Students visit a website to take notes over ecological services. Then, students look at examples of environmental disturbances and determine how they affect ecological services. How to answer a Free Response Question review and practice - Teacher reviews some important tips for answering FRQs including what the different questionin g verbs are (identify, describe, ect) - Students practice on whiteboard s	Block 13A 1:30PM-3:00PM 09/26/2025 Invasive species of Texas Lecture Students visit a website to take notes over ecological services. Then, students look at examples of environmental disturbances and determine how they affect ecological services. How to answer a Free Response Question review and practice - Teacher reviews some important tips for answering FRQs including what the different questionin g verbs are (identify, describe, ect) - Students practice on whiteboar ds

Week 7

Monday	Tuesday	Wednesday	Thursday	Friday
Block 14 A 1:30PM-3:00PM 09/29/2025 Warm-up: Isolation Proves Dangerous on Rat Island NPR Podcast and questions. Students learn about the vulnerability of species on islands when exposed to invasives through real life examples. Students go to the lake to collect combamba for an upcoming NPP lab Evolution Lecture with questioning- students learn about the different pieces of evidence that support the theory of evolution and the ways in which organisms of evolve Natural Selection PHET simulation- students manipulate environmental stressors and mutations within a rabbit population over time to model natural selection	Block 14 B 3:05 PM-4:35 PM 09/30/2025 Warm-up: Isolation Proves Dangerous on Rat Island NPR Podcast and questions. Students learn about the vulnerability of species on islands when exposed to invasives through real life examples. Students go to the lake to collect combamba for an upcoming NPP lab Evolution Lecture with questioning- students learn about the different pieces of evidence that support the theory of evolution and the ways in which organisms of evolve Natural Selection PHET simulation- students manipulate environmental stressors and mutations within a rabbit population over time to model natural selection	Block 15 A 1:30PM-3:00PM 10/01/2025 Warm-up: students watch video about the moose and wolves of isle royal, the longest running predator prey study in the world Peppered Moths practice FRQ Ecosystem Stability Lecture Students collect Cabomba at the lake for NPP lab With time left, students will work on the Moose and Wolves of Isle Royal Webquest in the packets	Block 15 B 3:05 PM- 4:35 PM 10/02/2025 Warm-up: students watch video about the moose and wolves of isle royal, the longest running predator prey study in the world Peppered Moths practice FRQ Ecosystem Stability Lecture Students collect Cabomba at the lake for NPP lab With time left, students will work on the Moose and Wolves of Isle Royal Webquest in the packets	Block 16 B 12:10PM-1:05PM 10/03/2025 TODAY IS A HALF DAY! Warm-up: Students watch To Save a Fox video Students model dispersal of organisms from the mainland to the island through a hands-on activity. Students will throw objects into islands of different sizes and distances from the mainland and make observations Students make hypotheses about the relationship between number of species and migration rate, size of island and mortality rate. Students test these hypotheses using an online simulation.

Week 8

Monday	Tuesday	Wednesday	Thursday	Friday
Block 17A 1:30PM-3:00PM 10/06/2025 Warm-up: Students watch To Save a Fox video and discuss why island species are more vulnerable to environmental stressors than other species Students model dispersal of organisms from the mainland to the island through a hands-on activity. Students will throw objects into islands of different sizes and distances from the mainland and make observations Students make hypotheses about the relationship between number of species and migration rate, size of island and mortality rate. Students test these hypotheses using an online simulation.	Block 18B 3:05 PM-4:35 PM 10/07/2025 Warm-up: Portrait of a Fire Ecologist Video discussion a scientist's long term study of the aftermath of the 2011 Bastrop fire Students use an Ecological Succession Simulation to learn about the different types of succession. They answer questions in their packet as they work Whole class review with whiteboards. The students use their white boards to answer questions provided by the teacher. Biodiversity Group Quiz	Block A 1:30PM-3:00PM 10/08/2025 Warm-up: Portrait of a Fire Ecologist Video discussion a scientist's long term study of the aftermath of the 2011 Bastrop fire Students use an Ecological Succession Simulation to learn about the different types of succession. They answer questions in their packet as they work Whole class review with whiteboards. The students use their white boards to answer questions provided by the teacher. Biodiversity Group Quiz	Block B 3:05 PM- 4:35 PM 10/09/2025 Warm-up: Why migratory birds have paler wings. Students read an article to learn about what adaptive advantage paler wings provide to migratory birds and answer questions. Measuring Biodiversity Activity - students record the number of cars of each color in the parking lot. They use this information to calculate species richness, species evenness, and the shannon biodiversity index Students calculate biodiversity in Gorongosa National Park Students begin review for their exam	10/10/2025 STUDENT AND STAFF HOLIDAY!

Week 9

Monday	Tuesday	Wednesday	Thursday	Friday
10/13/2025 STUDENT AND STAFF HOLIDAY!	Block B 3:05 PM-4:35 PM 10/14/2025 THIS IS AN EXTRA B DAY! Students will have time to complete the assignments in their packets that are due the day of the test. These assignments include: a natural selection simulation, island biogeography simulation, isle royale websquest and shannon biodiversity calculations The students will participate in a jeopardy review game to prepare for their test! They will work in teams to answer content questions on whiteboards	Block A 1:30PM-3:00PM 10/15/2025 Warm-up: Why migratory birds have paler wings. Students read an article to learn about what adaptive advantage paler wings provide to migratory birds and answer questions. Measuring Biodiversity Activity - students record the number of cars of each color in the parking lot. They use this information to calculate species richness, species evenness, and the shannon biodiversity index Students calculate biodiversity in Gorongosa National Park Students begin review for their exam	Block B 3:05 PM- 4:35 PM 10/16/2025 BIODIVERSITY TEST	Block A 1:30PM-3:00PM 10/17/2025 BIODIVERSITY TEST

Week 10

Monday	Tuesday	Wednesday	Thursday	Friday
Block A 1:30PM-3:00PM 10/20/2025 STUDENT HOLIDAY STAFF DEVELOPMENT DAY!	Block B 3:05 PM-4:35 PM 10/21/2025 Engage: students watch a video about the survival of sea turtles from birth to breeding age Explore: students graph the survivorship data of different organisms and make predictors about the life histories of these organisms Explain: whole class discussion where students share their findings and the teacher introduces the Type 1, type 2, type 3 survivorship curves Elaborate: students connect Type 1 and Type 3 curves to R selected and K selected species through a sorting activity Evaluate: students complete an exit ticket where they identify the survivorship curves	Block A 1:30PM-3:00PM 10/22/2025 PSAT TESTING DAY! Engage: students watch a video about the survival of sea turtles from birth to breeding age Explore: students graph the survivorship data of different organisms and make predictors about the life histories of these organisms Explain: whole class discussion where students share their findings and the teacher introduces the Type 1, type 2, type 3 survivorship curves Elaborate: students connect Type 1 and Type 3 curves to R selected and K selected species through a sorting activity	Block B 3:05 PM- 4:35 PM 10/23/2025	Block A 1:30PM-3:00PM 10/24/2025

		Evaluate: students complete an exit ticket where they identify the survivorship curves		
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Week 11

Monday	Tuesday	Wednesday	Thursday	Friday
Block A 1:30PM-3:00PM 10/27/2025	Block B 3:05 PM-4:35 PM 10/28/2025	Block A 1:30PM-3:00PM 10/29/2025	Block B 3:05 PM- 4:35 PM 10/30/2025	Block A 1:30PM-3:00PM 10/31/2025

Week 12

Monday	Tuesday	Wednesday	Thursday	Friday
Block A 1:30PM-3:00PM 10/20/2025	Block B 3:05 PM-4:35 PM 10/21/2025	Block A 1:30PM-3:00PM 10/22/2025	Block B 3:05 PM- 4:35 PM 10/23/2025	Block A 1:30PM-3:00PM 10/24/2025

Week 13

Monday	Tuesday	Wednesday	Thursday	Friday
Block A 1:30PM-3:00PM 10/20/2025	Block B 3:05 PM-4:35 PM 10/21/2025	Block A 1:30PM-3:00PM 10/22/2025	Block B 3:05 PM- 4:35 PM 10/23/2025	Block A 1:30PM-3:00PM 10/24/2025

Week 14

Monday	Tuesday	Wednesday	Thursday	Friday
Block A 1:30PM-3:00PM 10/20/2025	Block B 3:05 PM-4:35 PM 10/21/2025	Block A 1:30PM-3:00PM 10/22/2025	Block B 3:05 PM- 4:35 PM 10/23/2025	Block A 1:30PM-3:00PM 10/24/2025

Week 15

Monday	Tuesday	Wednesday	Thursday	Friday
Block A 1:30PM-3:00PM 10/20/2025	Block B 3:05 PM-4:35 PM 10/21/2025	Block A 1:30PM-3:00PM 10/22/2025	Block B 3:05 PM- 4:35 PM 10/23/2025	Block A 1:30PM-3:00PM 10/24/2025

Week 16

Monday	Tuesday	Wednesday	Thursday	Friday
Block A 1:30PM-3:00PM 10/20/2025	Block B 3:05 PM-4:35 PM 10/21/2025	Block A 1:30PM-3:00PM 10/22/2025	Block B 3:05 PM- 4:35 PM 10/23/2025	Block A 1:30PM-3:00PM 10/24/2025