***Chapter 2 Section 1: Organisms and Their Relationships***

***Level 4 (TEKS: 10C, 11B, 12A)***

Analyze the symbiotic relationships between your specific species and others. Make sure to include: predation, parasitism, commensalism, mutualism, and competition. You can include a few examples of each type to show how vital your organism is needed for its ecosystem.

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***Chapter 2 Section 2: Flow of Energy in an Ecosystem***

***Level 4 (TEKS: 12C)***

Evaluate the flow of energy through tropic levels, including a food chain, food web, and an energy pyramid for your species. Make sure to have visuals to include this information and be able to explain in complete details. You may include multiple examples for your website (the more examples demonstrate the vital need of your organism to its ecosystem stability).

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***Chapter 2 Section 3: Cycling of Matter***

***Level 4 (TEKS: 12E)***

Research and write about how your species is affected by the biogeochemical cycles. Include how the water, nitrogen, carbon, and phosphorous cycles are impacted with your species and how that would change if your organism was removed.

***Chapter 2 Section 3: Cycling of Matter***

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***Chapter 3 Section 1: Community Ecology***

***Level 4 (TEKS: 11D, 12B)***

Describe how environmental changes can impact ecosystem stability. Additionally, include the succession of ecosystem influencing your species and how changes in that ecosystem affect them. How does your species respond to the changes?

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***Level 4 (TEKS: 11D, 12B)***

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***Chapter 3 Section 1: Community Ecology***

***Level 4 (TEKS: 11D, 12B)***

Describe how environmental changes can impact ecosystem stability. Additionally, include the succession of ecosystem influencing your species and how changes in that ecosystem affect them. How does your species respond to the changes?

***Chapter 4 Section 1: Population Dynamics***

***Level 4 (TEKS: 12D, 12F)***

Describe about the human impact affecting your species. What settlements/activities and technologies are being used in their ecosystems (you may want to consider behaviors from humans as well)? How has this effected your species and how they respond to this change?

***Chapter 4 Section 1: Population Dynamics***

***Level 4 (TEKS: 12D, 12F)***

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***Chapter 4 Section 1: Population Dynamics***

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