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**Biology 9: Ecology Tic-tac-toe Assessment**

You must complete three of the following assessment tasks to receive full credit. Choose any three that form a straight line or a diagonal.

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| --- | --- | --- |
| Write a two page research paper on an **invasive species** and its effects on ecosystem functions and species diversity (include at least three sources) | Research 3 organisms and create a brochure explaining the habitat, niche, trophic levels, and population interactions that they demonstrate. | Write a two page research paper on an **global warming** and its effects on ecosystem functions and species diversity (include at least three sources) |
| Draw and annotate the carbon cycle Identify inputs, outputs, storages, flows and boundaries for this cycle. | Create a presentation on an environmental issue occurring in the world today. Be sure to include:   * Detailed description * Causes * Environmental Impacts * Solutions * Long Term Consequences | Draw and annotate the water cycle identify inputs, outputs, storages, flows and boundaries for this cycle. |
| Write a two page research paper on an **resource depletion** and its effects on ecosystem functions and species diversity (include at least three sources) | Draw and annotate the nitrogen cycle identify inputs, outputs, storages, flows and boundaries for this cycle. | Create a food web of feeding relationships for a named ecosystem. Be sure to include labels for trophic levels, arrows showing all feeding relationships, and label as a producer, consumer, decomposer or |