|  |  |  |
| --- | --- | --- |
| **Text Set Title: Impact of Invasive Species on Ecosystems** | | |
| **Text Set Grade Placement: 6** | | |
| **Enduring Understandings** | | |
| Students will be able to explain how the organisms in an ecosystem are dependent on one another and what occurs after the introduction of an invasive species. | | |
| **Text and Resources**  Interdependence in ecosystems will be introduced using the anchor text, which is a picture book. Students will then explore how invasive species can disrupt the natural balance of ecosystems using the resources in the following order; (1) National Geographic videos, (2) poetry (3) selected sections of books, (4) infographics and interactive games. | | |
| **Anchor Text** | **Title: Because of an Acorn**  **Author: Lola M. Schaefer** | |
| **Supporting Works** | **Book(s)**  1. Science Warriors: The Battle Against Invasive Species – Sneed B. Collard 2. What Is the Threat of Invasive Species? – Eve Hartman and Wendy Meshbesherby [Eve Hartman](https://www.barnesandnoble.com/s/%22Eve%20Hartman%22?Ntk=P_key_Contributor_List&Ns=P_Sales_Rank&Ntx=mode+matchall), [Wendy Meshbesher](https://www.barnesandnoble.com/s/%22Wendy%20Meshbesher%22?Ntk=P_key_Contributor_List&Ns=P_Sales_Rank&Ntx=mode+matchall) **Article(s)**  3. NewsELA – “New technology used to get rid of unwanted creatures”  <https://newsela.com/articles/robots-battle-invasive-species/id/30082/>  4. ReadWorks – “Are the Everglades Forever?”  <https://www.readworks.org/article/Are-the-Everglades-Forever/9c1285cd-177d-4532-9be0-3255b9cc34d1#!articleTab:content/>  “Pythons Invade the Florida Everglades”  <https://www.readworks.org/article/Pythons-Invade-the-Florida-Everglades/70e9c396-91f6-46b8-9fb0-27ab30ad57f1#!articleTab:content/>  **Poem(s)**  1. Ripples In a Pond  <https://www.poetrysoup.com/poem/ripples_in_a_pond_370525>  2.Water Hyacinth  <https://www.poetrysoup.com/poems/short/water_hyacinth>  **Infographic(s)**  3. Wolves keep Yellowstone in balance  <http://earthjustice.org/features/infographic-wolves-keep-yellowstone-in-the-balance>  4. When animals invade  <http://www.worldsciencefestival.com/infographics/attack_of_the_invasive_species1/>  **Other Media**  5. National Geographic – 5 videos  <http://www.nationalgeographic.com/search/?proxystylesheet=site_search&output=xml_no_dtd&client=site_search&getfields=%2A&requiredfields=description&site=videos&q=invasive%20species%20videos&http://www.nationalgeographic.com/search/?proxystylesheet=site_search&output=xml_no_dtd&client=site_search&getfields=%2A&requiredfields=description&site=videos&q=invasive%20species%20videos&>  6. NOVA invasive species interactive matching game  <http://www.pbs.org/wgbh/nova/nature/invasive-species-game.html>  **Supporting Works will be introduced/taught in the following order:**  **see Text and Resources section above** | |
| **Standards** | New Standards 6.LS2: Ecosystems: Interactions, Energy, and Dynamics  1. Evaluate and communicate the impact of environmental variables on population size.  2. Determine the impact of competitive, symbiotic, and predatory interactions in an ecosystem.  5. Analyze existing evidence about the effect of a specific invasive species on native populations in Tennessee and design a solution to mitigate its impact. | |
| **Knowledge** | | **Skills** |
|  | |  |
|  | |  |
|  | |  |
|  | |  |
| **Rich, Authentic Task** | | |
| The students will be given case files (with limited information) for invasive species that are currently impacting national parks in the U.S. Working with a partner, they will construct a diagram or write an essay that identifies the following; ecological roles of primary organisms and the invasive species, impacts of the invasive species, why the invasive species is successful, and possible mediations or solutions to the problems presented. The information will then be presented to the class. | | |