

Environmental Science Human Sustainability	Links
<p>Standard:</p> <p>HS-ESS3-1. Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.</p> <p>HS-ESS3-2. Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.*</p> <p>HS-ESS3-3. Create a computational simulation to illustrate the relationships among the management of natural resources, the sustainability of human populations, and biodiversity.</p> <p>HS-ESS3-4. Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.</p> <p>HS-ESS3-6. Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.</p> <p>HS-LS2-7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.</p>	<p>HS-ESS3-1 to 6</p> <p>HS-LS2-7</p>
<p>21st Century Learning Expectations:</p> <ul style="list-style-type: none"> Hinsdale students will communicate through various means Hinsdale students will be able to solve problems 	<p>Link for 21st Century Learning Expectations</p>

<p>Enduring Understandings (cross cutting concepts):</p> <ul style="list-style-type: none"> • Human activities alter the natural environment. • The human population is growing exponentially, humanity needs to find ways to use resources in a sustainable manner. • Developing and developed nations affect the planet in different ways. 	
<p>Learning Competencies (engineering practices)</p> <p>Students will be able to: (NGSS Science and Engineering Practices)</p> <ul style="list-style-type: none"> • Create population pyramids • Analyze demographic data • Discuss environmental issues such as climate change, water scarcity, solid waste management, loss of biodiversity, etc • Discuss the problem of ecosystem fragmentation and propose solutions based on urban planning and design. 	<p>Essential Questions (core ideas)</p> <p>What is the human footprint of the average American family?</p> <p>What actions can be performed in order to reduce our ecological footprint?</p>
<p>Performance Task Sample:</p> <p>foot print activity</p> <p>Urban Ecology activities</p>	<p>[Clarification Statement: Examples of human activities can include urbanization, building dams, and dissemination of invasive species.]</p>

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