






Human Impact with Environmental Literacy Playlist: This playlist is designed to help you evaluate the impacts humans have on biodiversity within an ecosystem. Although there are some strict deadlines, it allows you to move at your own pace and focus on what **you** need to do specifically to improve your understanding of factors that affect biodiversity which influence ecosystem stability. Follow the directions for each activity and let's start this journey together!


WE VIDEO CLASS CODE: 4p198px

Path	Directions	Completed?
Whole Group		
1) Watch & Listen: Human Population video & NPR on Biodiversity 	Watch this video about the human population . As a class, discuss the following: <ul style="list-style-type: none"> • how this video made you feel • different factors that have affected population over the Earth's history Listen to NPR's <i>All Things Considered</i> broadcast about biodiversity: <ul style="list-style-type: none"> • 1 Million Animal And Plant Species Are At Risk Of Extinction, U.N. Report Says • Africa's Wildlife Threatened With Extinction As Natural Landscapes Wither 	
Understanding the Project		
2) Watch: Example Video 	Watch " Sea Level Rise " created by students here at Catoctin High School! As you watch the video, Record your Roses and Thorns Here <ul style="list-style-type: none"> • (rose) one aspect of the video that engaged you • (thorn) one aspect that you think could be improved upon Other Examples: "The Plastic Problem" created by students at Blair HS 2019 Catoctin Films 2021 Catoctin Films 2023 Catoctin Films	
Research Process		


<p>3) Select: Specific HIPCOO Topic</p> 	<p>Break into partners (only two per group).</p> <p>Sign up for a HIPCOO topic to research:</p> <ul style="list-style-type: none"> ● Block 2 sign up ● Block 3 sign up ● Block 4 sign up <p>One person from each partner group open this HIPCOO Subtopic Research Note Sheet, make a copy, and share it with your partner. You and your partner will use the note sheet to take detailed notes on your research.</p> <p>Items to focus on during research:</p> <ul style="list-style-type: none"> ● Environmental issue. Explain it: How does it happen? Where? When? Why? ● Impacts on Biodiversity - What does it do to the natural environment and the organisms that live there? ● Before and After ● Pros & Cons ● Significance - Why do we care? ● Examples - Local and Global ● Solution Examples 	<p>Example: Erosion of Soil</p>
<p>4) Cite: Using NoodleTools and making in-text citations</p> 	<p>Create a collaborative project using NoodleTools to create citations. Share your project with Mrs. E and Mr. Brotherton (Inbox name: Human Impact Film Project 2023).</p> <ul style="list-style-type: none"> ● How to set up a collaborative project <p>NoodleTools Basics:</p> <ul style="list-style-type: none"> ● How to sign into NoodleTools ● NoodleTools Guide <p><u>Creating a Citation:</u></p> <ul style="list-style-type: none"> ● Start a new project <ul style="list-style-type: none"> ○ Enter the project title as your topic of focus ○ Select MLA as the Citation Style 	

	<ul style="list-style-type: none"> ○ Select “Advanced” for Citation Level ● Select the “Sources” tab on the top toolbar ● Select the “+Create new citation” button <ul style="list-style-type: none"> ○ Select the source location (database, website, print, etc) ○ Then select the appropriate source type (blog, webpage, magazine, reprinted article, etc) ○ Follow the directions on the form (watch this video to learn about adding database sources vs website sources) ○ Press “Save” <p>All information must be cited! Use in-text citations when adding information to your HIPCOO Subtopic Note Sheet.</p> <ul style="list-style-type: none"> ● What Are In-Text Citations? (Imagine Easy Solutions) ● MLA In-text Citations: The Basics (Owl Purdue) 	
<p>5) Research: HIPCOO Topic</p> 	<p>You will use two types of resources for your research: websites and databases.</p> <p>Use these resources to complete basic research on your topic.</p> <p>Requirement:</p> <ul style="list-style-type: none"> ● Must have TEN resources total (at least four of them have to be from the databases--green section of the resource list) <p>Items to focus on during research:</p> <ul style="list-style-type: none"> ● Environmental Issue - Explain it. What is it? How does it happen? Who does it affect? When? Where? Why? ● Impacts on Biodiversity - What does it do to the natural environment and the organisms that live there? ● Before & After: What was the original natural habitat and what does it look like now? What was the cause of change in the habitat? What role did humans play? ● Pros & Cons: Why did humans create this problem and choose to continue to contribute to it? How does your topic harm humans and the ecosystem? <p>Record your findings in detail on the HIPCOO Subtopic Note Sheet. Remember to</p>	

	include the in-text citations in your notes.	
6) Interview: Zoom Google Meets Skype Phone In-person Email FaceTime	<p>Interview an expert or a knowledgeable professional from the field you are researching.</p> <p>Potential Interview Subjects</p> <p>See these interview basics and tips & tricks:</p> <ul style="list-style-type: none"> • Tips for Interviewing a Scientist • Help! I'm Interviewing a Scientist: What do I ask? <p>Citing an Interview in Noodletools</p>	

<p>Teacher Time</p> 	<p>Raise your hand for Mr. Brotherton or Ms. Engelstatter to review your work and provide feedback.</p> <p>We will review your answers and see if you need to complete any additional research before moving on.</p>	
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Design Process (Collaborative-- Partners/Whole Group)

7) Design: A Solution 	<p>Watch the following videos to better understand the Engineering Design Process:</p> <ul style="list-style-type: none"> • The Engineering Design Process: Taco Party (KQED Quest) • The Engineering Process (Crash Course) <p>One person from each partner group open this Engineering Design Process Notesheet, make a copy, and share it with your partner. You and your partner will use the note sheet to take detailed notes on your research.</p> <p>Design a solution using the Engineering Design Process:</p> <ul style="list-style-type: none"> • Step One: Define your problem - Be specific, use evidence from your research as support (5 mins) • Step Two: Brainstorm proposed solutions (10 mins) • Step Three: Develop criteria (10 mins) <ul style="list-style-type: none"> ○ Successes (what should a solution have to be successful?; at least 3) 	Example: Erosion of Soil
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- Constraints (limitations or any factors that limit or restrict a solution; at least 2)
- Ask these questions:
 - Think about who has to implement the solution.
 - What will it cost?
 - Who will pay for it?
 - How effective will it be?
 - Is it a long-term solution?
 - Does it solve one problem but create a new problem?
 - Will any new technologies be required to implement your solution?]

Show Your Work

8) Create: A Short Film



You will create a short film that is around 5 minutes in length and meets the following requirements:

- **Title:** Should let the reader know what the problem is
- **Background Info:** Define the problem; before and after picture and description; pros and cons
- **Engineering Design Process:** Your solutions; criteria and constraints; design analysis chart; which solution you chose and why; revisions
- **References:** Citations for all resources and pictures in MLA style PRINTED OUT from [NoodleTools](#)


VIDEO EXPECTATIONS:

Review [video expectations and structure](#).

- Use [this sheet to plan out video structure](#) in your group.
- Or use this [Storyboard Template](#) for extra help if you are lost!

Use [WeVideo](#) to put your film together. Here are some resources for WeVideo:

- [WeVideo Quick Guide](#)
- [WeVideo Academy](#)

	<p>MEDIA: Use these resources when finding images and clips to include in your video.</p> <ul style="list-style-type: none"> • Britannica Image Quest • Student Resources in Context (Images) • How to Save and Cite from Britannica ImageQuest • How to Save and Cite from Google Filtered Image Search • Consider incorporating footage from your interview if you recorded it! However, it should not take up the majority of the film's length. <p>Be sure to check over the Final Rubric before finalizing your project, and submit your video link to the Film Submission document.</p>	
<h2>Environmental Literacy Film Fest</h2>		
<p>9) Show: Film Fest</p> 	<p>On Saturday, June 3rd you and your partner will present your film during the Environmental Literacy Film Fest. We will roll out the red carpet and invite guests from around the school and the community. Let your creativity shine as you create your film!</p> <p>Remember to review the Final Rubric.</p>	