What's Included?

Unit Planning

- NGSS and APES Standards document
- Unit Pacing Guide for 50 min classes
- > Differentiation ideas for honors students and virtual students *Digital links for virtual learning found here
- Honors assignment list

Notes

- Unit 3 PowerPoint (19 slides)
 - Biomes
 - > Ecological Succession
 - Biodiversity
- Cornell Notes Pages (3 pgs)
- Doodle Notes Pages (3 pgs)
 - Guide to Using Doodle notes
 - ➤ Doodle Notes Keys & Examples
- Web-quests (6 pgs) (Can be used as an alternative to notes)

Student Pages

This folder contains duplicate copies of every student page. They are in order according to the pacing guide for QUICK PHOTOCOPYING if you are using the pacing guide as is.

Activities

- ➤ Biome Travel Brochure Research Activity (3 pgs)
- Biome Food Web Poster Project (26 pgs)
- Geocaching Lab (6 pgs)
- Plant Transect Biodiversity Lab (3 pgs)
- Lionfish Invasive Species Panel Discussion (4 pgs)
- Answer Keys for all activities

Extensions

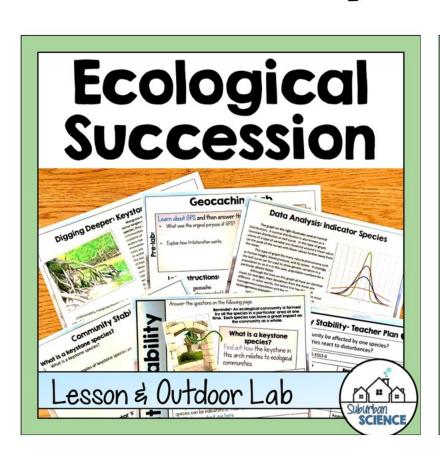
- Data Analysis: Climatograms
- Digging Deeper: Vegetation & Climate
- Digging Deeper: Keystone Species Project
- Data Analysis: Indicator Species*
- Data Analysis: Biodiversity Indices*
- Digging Deeper: Invasive Species Research

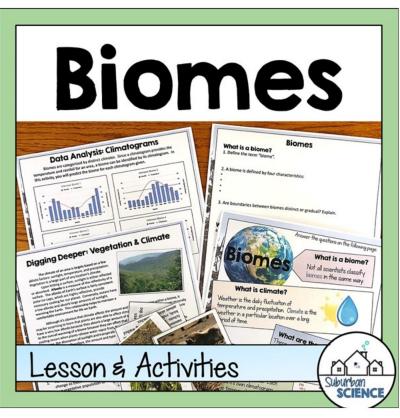
*Honors Options

Review and Assessment

- Biomes & Succession Online Quiz through Google Forms
- > Editable Task Card Review (32 cards) with answer sheet
- ➤ Biomes, Succession & Biodiversity Test (paper)- both Honors and Regular versions with answer sheets

Includes the following individual lessons which were previously available separately in my store:







If you have already purchased one of these lessons, please contact me at support@suburbanscience.com for a discount on this unit.

Unit Planning

What's Included?

Biosphere: Unit 3



- NGSS Standards document
- Unit Pacing Guide for 50 min classes
- Differentiation ideas for honors students and virtual students
- Honors assignment list

Notes

Folder

- Unit 3 PowerPoint (19 slides)
 - Species & Speciation Population Growth
 - Populations: Survivorship
- Editable Cornell Notes version
- Guide to Using Doodle notes
- Doodle Notes Keys & Examples
- (Can be used as an alternative to

Web-quests (6 pgs)

Activities

- Biome Travel Brochure Research Activity (3 pgs) Biome Food Web Poster Project (26 pgs)
- Geocaching Lab (6 pgs)
- Plant Transect Biodiversity Lab (3 pgs)
- Lionfish Invasive Species Panel Discussion (4 pgs)
- Answer Keys for all activities

Extensions

- Data Analysis: Climatograms
- Digging Deeper: Vegetation & Climate
- Digging Deeper: Keystone Species Project
- Data Analysis: Indicator Species*
- Data Analysis: Biodiversity Indices*
- Digging Deeper: Invasive Species Research

*Honors Options

Review and Assessment

- Biomes & Succession Online Quiz through Google Forms (Make a copy of this file to your Drive. Do NOT assign to students using this link.)
- Editable Task Card Review (14 cards) with answer sheet
- Biomes, Succession & Biodiversity Test (paper)- both Honors and Regular versions with answer sheets

Student Pages

This folder contains duplicate copies of every student page. They are in order according to the pacing guide for QUICK PHOTOCOPYING if you are using the pacing guide as is.

Supplementary Resources

- Biome Research Online
- Video instructions for making a climatogram using Excel
- · Website that provides climate data for climatograms
- · Information about invasive lionfish
- <u>Data Nuggets extension activity</u> on transects & succession after disturbance
- <u>Data Nuggets extension activity</u> on biodiversity & invasive species

Materials Needed

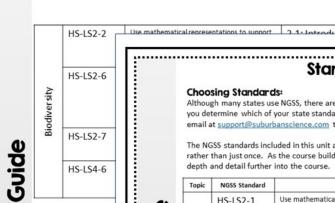
- General classroom use: computers, calculators, rulers, colored pencils, paper, scissors
- Biome Food Web Poster Project: posterboard, glue sticks
- Geocaching Lab: cell phones or GPS units, outdoor space with geocaches, plant ID guides or apps (ex: iNaturalist) Biodiversity Lab: outdoor space with variety of plants, plant ID guides or apps, tall garden stakes, yarn or fishing

Unit Overview Page

Supplementary Resource Ideas and Materials Lists

NGSS and APES Standards Document

If you have specific state standards, contact me by email (support@suburbanscience.com) and I'll help you figure out which ones are covered!



Biosphere Unit

Standards:

Choosing Standards:

Ē

Biosphere

Although many states use NGSS, there are some states that do not. I would be glad to help you determine which of your state standards are covered in this unit. You can send me an email at support@suburbanscience.com to find out. Thank you!

The NGSS standards included in this unit are addressed multiple times throughout this course, rather than just once. As the course builds upon itself, the standards will be met with greater depth and detail further into the course.

Topic	NGSS Standard	Description	APES Topics	
	HS-LS2-1	Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.	1.1: Terrestrial Biome 1.11: Food Chains and Food Webs	
	HS-LS2-7	Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.	5.10: Impacts of Urbanization 8.2: Human Impacts on Ecosystems	
Biomes	HS-LS4-6	Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity.		
8	HS-ESS2-2	Analyze geoscience data to make the claim that one change to Earth's surface can create feedbacks that cause changes to other Earth systems.		
	HS-ETS1-2	Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.		
Ecological Succession	HS-LS2-6	Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.	2.4: Ecological Tolerance 2.5: Natural Disruptions to Ecosystems 2.7: Ecological Succession 8.4: Human Impacts on Wetlands and Mangroves	
	HS-LS2-7	Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.		

50 min classes

	Day	Instruct	Assess	Homework
	8	Geocaching Lab (Part 2: Creating a Geocache) Materials: water-proof container for each class, trinket/sticker to hide in geocache	Informal assessment of student behavior and participation during geocache creation Quick check of completion and/or accuracy of geocache lab questions	
	9	Finish Geocaching Lab, if necessary Online Quiz on Biomes & Ecological Succession	Formal assessment of student understanding via quiz	
rersity	10	Unit 3 PPT (Section 3) Cornell Notes (Biodiversity) Biodiversity Lab (Introduction only) Materials: 200 beads in a container (at least 3 different colors)	Cornell Notes summary Informal discussion and questions Informal class discussion after introductory lab questions	
	11	Biodiversity Lab (Lab Procedures Page & Discussion questions) Materials: outdoor space with a variety of plants,	50 min	Riospl

Editable Pacing Guides

Biodiversity	 Unit 3 PPT (Section 3) Cornell Notes (Biodiversity) Biodiversity Lab (Introduction only) Materials: 200 beads in a container (at least 3 different colors) 		
	II	Biodiversity Lab (Lab Procedures Page & Discussion questions) Materials: outdoor space with a variety of plants, plant identification guides or apps, tall garden stakes, 50' of yarn or fishing line	
_	*	Optional Day: Use Doodle Notes to Review concepts if Cornell Notes have been used for primary note-taking (Biomes, Succession, & Biodiversity pages)	
	12	Digging Deeper: Invasive Species	
	13	Real Life Scenario: Invasive Lionfish	
Review	14	Use Task Cards to review unit concepts (also copy Task Card Answer Sheet)	
Ass	15	Take Unit 3 Test	

classes

Day

Biosphere Unit 3 Pacing Guide

Homework

	Day	Instruct	Assess	Homework
Biomes	1	 Unit 3 PPT (Section 1) Cornell Notes (Biomes) Data Analysis: Climatograms 	Cornell Notes summary Informal discussion and questions Informal class discussion to check climatogram questions	
	2	Begin research and creation of Biome Travel Brochure Provide students with Biome Travel Brochure Rubric	Informal progress check during research time	
	3	Finish Biome Travel Brochure Digging Deeper: Vegetation & Climate	Formal assessment using Biome Travel Brochure grading rubric Informal class discussion to check vegetation questions	
	4	 Begin Biome Food Web Poster Provide students with printed instructions (Student Instruction Page, Student Notes Page, Grading Rubric, Map, Biome images) 	Informal progress check during research time	
	5	Finish Biome Food Web Poster	Formal assessment using Biome Food Web Poster grading rubric	
Ecological Succession	6	 Unit 3 PPT (Section 2) Cornell Notes (Community Stability) Digging Deeper: Keystone Species 	Cornell Notes summary Informal check of progress and finished Keystone Species flyer	Honors: Data Analysis: Indicator Species
	7	Geocaching Lab (Pre-lab & Part 1: Finding a geocache) Materials: Computers, cell phones or GPS units, location of several geocaches near school, plant and/or tree identification guides or apps	Informal progress check during pre- lab research Quick check of pre-lab questions Informal assessment of student behavior and participation during geocache search	

The daily topics (coincide with the previous standards document.

Lesson planning is now quick and easy!

Coincide with NGSS Planning Folder

*Bold items must be photocopied.



This icon is found on the top right corner of Honors pages for easy identification.

Differentiation Ideas

for:

- Student Interest
- Student Ability
- Teaching Pace
- Teaching Environment (Virtual, in-class, or hybrid)

Differentiation

Student Ability

- - Honors options are included in the student pages. These advanced class or individual students, as needed.
 - Editable Cornell notes (found in the Notes folder)
 - · Delete the fill-in-the-blank notes on the right side for a more independent note-taking experience.
 - · Delete the summary and allow students to come up
 - - . Use the "Honors" tests that include additional shor
- Struggling students
 - · Eliminating homework altogether may work well for studthinking independently or have home situations that don't of class. Make sure to account for the extra class time nee assignments in class.
 - Use multiple methods of note-taking:
 - Web-quest followed by PPT & Cornell notes will help understanding rather than just one method. Doodle the end of the topic as a student-led review. This all the same material presented in three different way

Import

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to stu

Differentiation

Teaching Environment

- Virtual or Hybrid students Digital Options:
 - · Links for PowerPoints
 - · Web-quests

 - · Online Biome Travel Brochure Template
 - Digital Student pages using Google Slidesⁿ for students to type on

At-home lab alternatives:

Biome Poster Project- Students can complete this at home using research from the internet to create a food web. It can be shown on a Google Slide rather than a poster, if posterboard is not available.

All found on

the following

- Geocaching Lab- This can be completed using geocaches near any students' home, if you have parent permission. Students can simply download the "Geocaching" app and find caches near them. It would be up to teacher discretion whether you'd like to have students create a geocache and/or hide it near them.
- Biodiversity Lab- Students can complete a plant transect at home if they

Digital Differentiation:

Web-quests:

- Biomes Web-quest (with key)
- · Community Stability Web-quest
- Biodiversity Web-quest (with key)

Other:

- Unit 3 PowerPoint
- Student Pages for whole unit
- Digital Travel Brochure Template
- · Biomes & Succession Quiz through Google Forms

To use these files for Google Classroom:

- Make a copy of each file using the links above.
- Rename the file in your own Google Drive.
- 3. Delete any pages you don't want to assign.
- 4. Make a new assignment in Google Classroom and to the assignment. Then, choose "Make a copy for student."

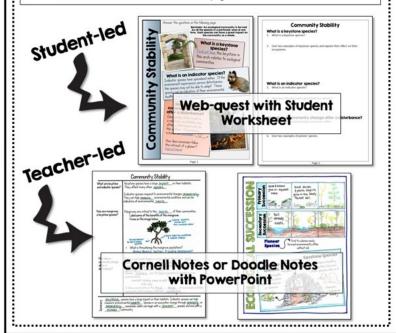


Differentiation

Differentiation is a key component to any unit. Here are some tips for differentiating based on student interest, ability and teaching environment.

Student Interest/Choice

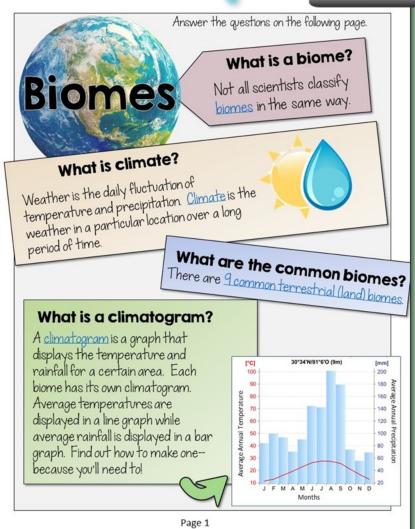
- Three options for content delivery are included in this unit:
 - · Web-quests: Students can explore content through links and answer provided questions on a worksheet. This is ideal for independent learners or sub plans. Find these web-quests on the last page of this document.
 - Cornell Notes: Teacher lectures with included PowerPoint and students record information in guided Cornell notes. An editable version of the Cornell notes is provided so teachers can adjust the content.
 - Doodle Notes™: Teacher lectures with included PowerPoint and students record information on Doodle Notes[™] pages.



Content Delivery Option I: Student Webquest

Live video links for independent learning on any device!





Biomes

What is a biome?

- 1. Define the term "biome".
- 2. A biome is defined by four characteristics:
- -
- 3
- 100
- 3. Are boundaries between biomes distinct or gradual? Explain.

What is climate?

- 4. Describe the weather and climate in your location.
- 5. Name and briefly describe the 9 world biomes.

Corresponding Comprehension Questions

- •
- •

Page 2

Content Delivery Option 2: PowerPoint Presentation

19 editable, fully-animated slides

What are the characteristics of the 9 world biomes?

- Tundra cold, treeless, ground permanently frozen
- Taiga cold, animals hibernate, largest biome, conifer
- Grasslands large, rolling terrain, many grasses, few to
- Deciduous Forest Four distinct seasons, many trees,



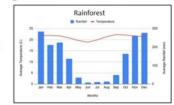


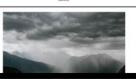


What are climatograms?

- Climatograms provide the temperature and rainfall for an area and can identify biomes
- Climatograms show changes in the climate over time and can be used to show the effects of human

activity on the climate





How are mangroves keystone species?

are critical to the **health** of nunities.

ves excrete excess salt from mixture of salt and fresh)

ts stabilize coastlines & reduce

vide shelter for fish and shark

are threatened by shrimp purism and coastal ent



Sample Slides

How does a community change after a disturbance?

- Primary succession begins in areas where there is no ex: newly created volcanic island
- Secondary succession occurs when soil is still preser
 - · occurs more quickly than primary succession
 - · Ex: flood, fire



What are the 3 main types of biodiversity?

- Biodiversity is the variety of life
 - Species biodiversity the variety of species within a habitat or region
 - Genetic biodiversity the variation of DNA and genes within a species or population
 - Ecological biodiversity the variation in the network of species present in a certain location and the way they interact with each other



How is a line transect used?

ects are one method of sampling er of species in an area.

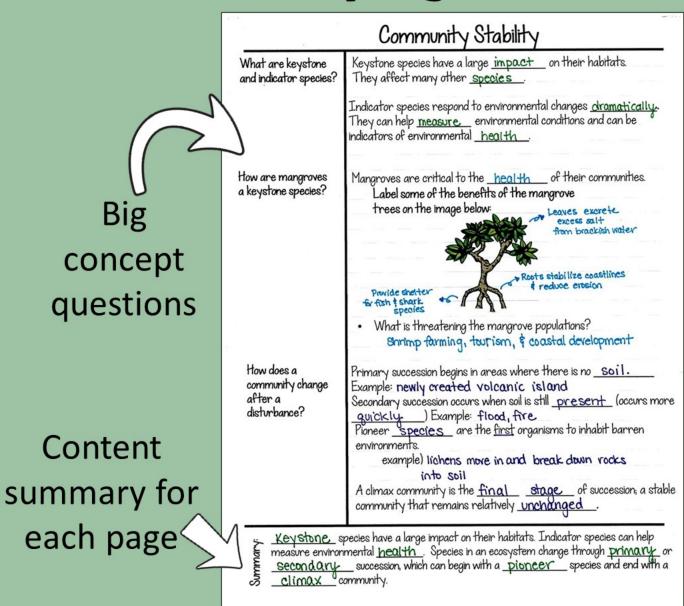
of **species** along a specific **ne** is measured.

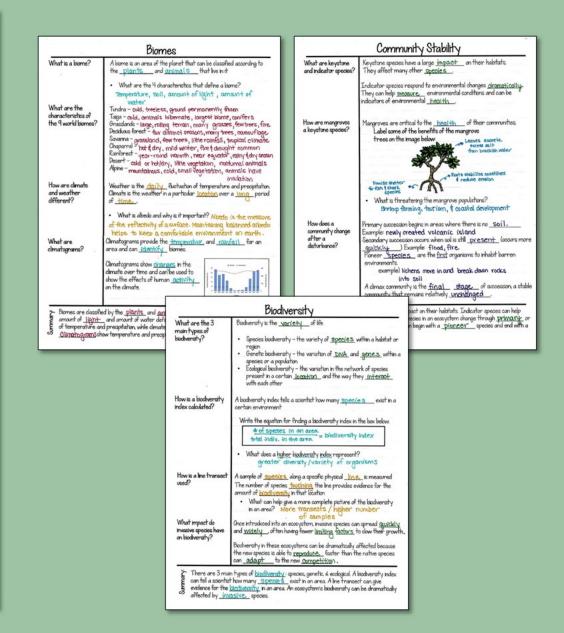
per of species **touching** the line evidence for the amount of **ity** in that location

ng several transects will give a plete picture of the biodiversity on



3 pages of Cornell Notes

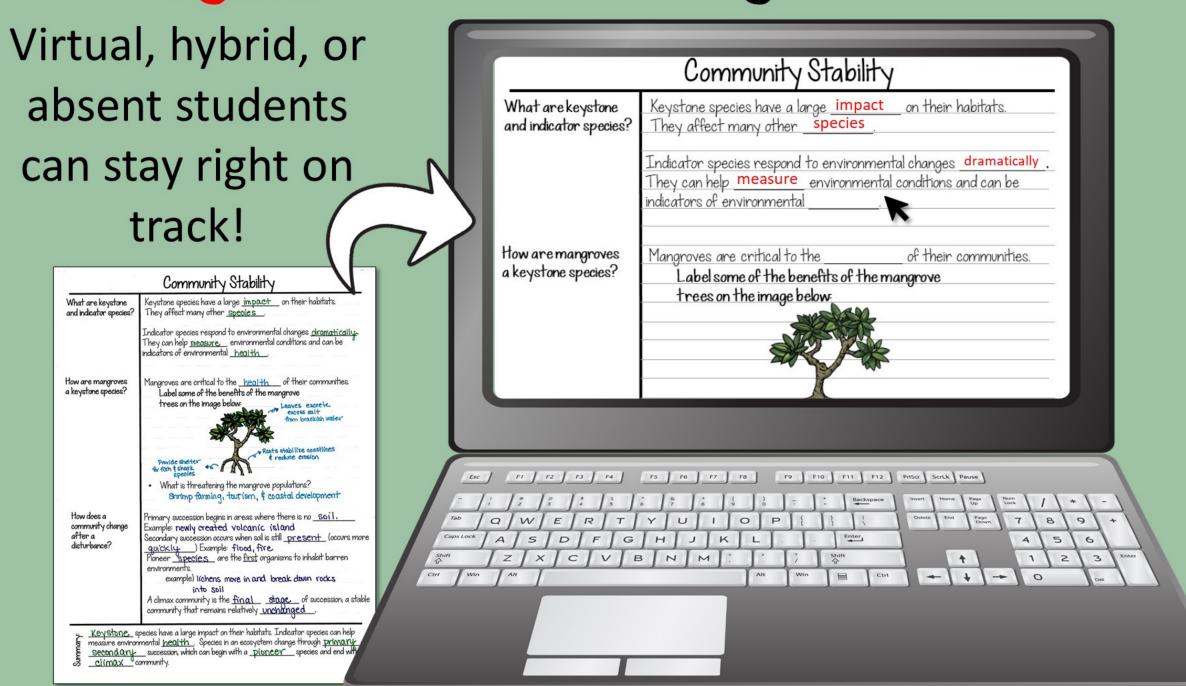




Each page is editable.

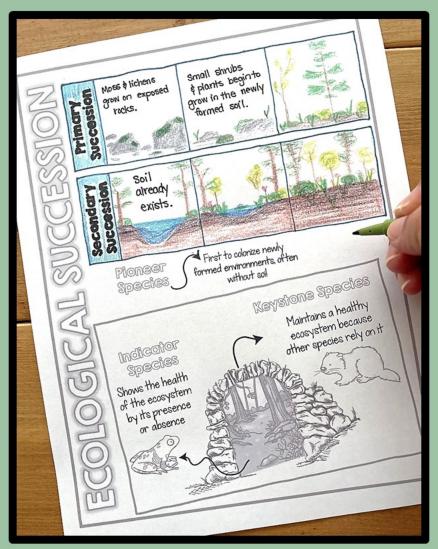
Add and delete text, questions, and summaries to meet the needs of your students.

Every student page also comes in a digital version on Google Slides



Can be used in Google Classroom, Microsoft OneDrive or many other platforms!

3 pages of Doodle Notes for Summarizing & Review





Doodle Notes™ increase student focus and memoryand they're great fun!

A guide for using them in your classroom is included.

Includes 5 Activities

- Biome Travel Brochure Research Activity
- Biome Food Web Poster Project
- **Geocaching Lab**

- Plant Transect Biodiversity Lab
- Lionfish Invasive Species Panel Discussion

Biome Travel Brochure

Objective:

Describe a particular biome and explain the ecological importance of that area.

Research:

- Research a biome of your choice.
- Use the template provided on the following page to make a trifold travel brochure for your biome. You must include all the information that is listed below. You may add more text, images, backgrounds, etc.
- You will be graded using a grading rubric. Please look at the rubric while completing the project.
- (Optional) You may turn in an electronic version of the travel brochure on a

Biome Travel Brochure

- Description & im Sample Page
 Description & im Sample Page
 Explanation of the blome's ecological importance





Objective: Students will construct a food web for a specific biome using the photos and descriptions of organisms provided.

1. Print all the pages that follow this one. (pages 3-28) Pages 6-27 are pictures of animals found in each biome and their matching descriptions including information about their diets (The pictures and descriptions are arranged to be printed in two-sided format. Optionally, you could laminate these cards and reuse them year after year. To do this, students can use tape for their poster.)

 ${\bf 2. \ \ It \ would \ be \ helpful \ to \ provide \ some \ background \ information \ about \ food \ chains \ and}$ food webs prior to this activity. Students should understand how energy is transferred up

4. Students should follow directions on the student directions page

5. Information about specific biomes can be found in most life science textbooks or online. For suggested websites, see the "Start Here" document.





Geocaching Lab

Using the internet, find the answers the following questions.

· What was the original purpose of GPS?

Pre-lab:

Explain how trilateration works.





In this part of the lab, you will create a geocache with your class This geocache will be educational in nature. The purpose is to teach future geocache hunters about the ecological community around them

With your teacher and the rest of your class, select a location for your future geocache.

Find and record the information on the following page to include in your geocache.

Page 6

Biodiversity Lab

Lab Procedures: (Take these outside with you!)

- Tie one end of your cord to one of the stakes.
- Push the tent stake into the ground at your team's designated starting point.
- Stretch the cord to its full length, being careful not to step on the plants that

want to disturb

Biodiversity Lab

Introduction: (Do these before the lab)

- Look at the container of 200 beads. If you were asked to estimate the number of each color of bead in the container, how might you do it?
- 2. Choose 18 beads as a "sample" of the bead population. After the 18 beads are collected, list the colors and number of each color below.
- 3. Calculate the diversity index of the "bead population" by using this formula: #of colors (or species) in sample/ # of individuals in sample

Plant Transect Biodiversity Lab Discussion Questions: (Do these after the lab) Calculate the diversity in Sample Pages

- 2. Why is it important for scientists to do several sample transects in the same
- 3. What possible sources of error might have occurred during this lab that would affect your diversity index?

to the ground.

ot identify. ord and record s you walk the ts that touch

ord the letter of name of the

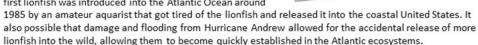
and rewind the

Real Life Scenario: Invasive Lionfish

A Case Study on Invasive Species

Lionfish, recognizable by their stripes and large, venomous spines, are a notable invasive species in the eastern United States. As lionfish populations continue to grow within the Atlantic Ocean, biologists and government organizations are working to prevent further spread and control existing populations.

Lionfish are native to the tropical waters of the South Pacific and Indian Oceans. They have long been collected and sold to be kept in home aquariums. Scientists think it is likely that the first lionfish was introduced into the Atlantic Ocean around



The lionfish invasion has been hard to combat, likely due to its natural beauty. Unlike snakehead fish and Asian carp, which are generally considered to be unattractive species, the lionfish is seen as an exotic and interesting creature. Some chartered diving companies are resistant to capturing these fish because recreational divers like to see them.

Why are lionfish such a problem?

- Lionfish are not easily preyed upon due to their venomous spines and the inability for native species to recognize them as food. Although they can be eaten by humans when cleaned and stripped of their spines, some consumers are still reluctant to do so.
- · Lionfish are indiscriminate predators that eat nearly anything small enough to fit into their mouths,
- Lionfish are able to breed year-rou producing up a 30,000 eggs every 4 days. Their young reach reproductive age ducklionfish is not provided by the productive age ducklion in the productive age duckling it more difficult for them to connect with the life of the productive age and the productive age age and the productive age are agreed age.
- Lionfish ed on parrotfish, which are poises that grazing performed by the state of the prevention of t



PETA Member

As a member of People for the Ethical Treatment of Animals (PETA), you are committed to preventing the harm and abuse of any animals. You also don't approve of the use of

Home Aquarium Owner

You just love saltwater aquariums. You've had several in your house for 10+ years and your friends love to

look at the fistover for dinner fish from locatrade shows.

Director of Florida Keys Tourism Council

Tourism accounts for a large portion of the Florida Keys' economy. Many tourists come to enjoy the natural

heauty of this location You work

National Marine Sanctuary Director

The National Marine Sanctuary protects the habitats and species of the marine coastlines of the United States. Your job is to safeguard the species of marine life for future generations.

You work nd media visitors to

r food.

Extension Pages

Math skills check!

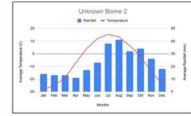
(great for standardized

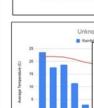
test prep)

Data Analysis: Climatograms

Biomes are categorized by distinct climates. Since a climatogram provides the temperature and rainfall for an area, a biome can be identified by its climatogram. In this activity, you will predict the biome for each climatogram given.







Determine the identities of the unknown biomes 1-4. Explain

Biome 1:

Biome 2:

Biome 3:

Biome 4:

2. How could climatograms be used by scientists? (What is their

Digging Deeper: Keystone Species



Mangrove trees certainly look unusual v dense tangles exposed roots, but as kevstor species, they are critical to the health of the communities. They grow in tropical latitude coastline of slow-moving tidal waters. These waters rise and fall at least twice per day- ar environmental condition for which these ma trees are well-suited. Their prop roots allow to withstand daily flooding while their leave the excess salt absorbed from their brackish

Mangrove forests provide a great service to communities. Their roots stabilize the coast reduce erosion while also slowing the mov water to allow for sediments to settle on the bottom. The tangle of roots also provides sh thousands of fish and shark species.

Unfortunately, mangrove forests are disappearing at an alarming speed. Some ecologists estimated 50% of the world's mangroves are already gone. They face significant threats from humans, especial countries such as India, the Philippines, and Vietnam. Even in the United States, they are being dest

Data Analysis: Biodiversity Indices





A species biodiversity index is a very basic measure of diversity. It accounts for the number of species (called species richness) present but ignores other factors such as the abundance of each species.

Here's an example: You have sampled two different lakes. The sample from the first lake consists of 34 catfish, 9 bass, and 7 sunfish. The sample from the second lake consists of 19 catfish, 17 bass and 14 sunfish.

Both lakes have the same species richness: 3 species within 50 fish. The second sample, however, has a higher species evenness. The second sample is more diverse because a community dominated by one or two species is considered to be less diverse than one in which several species have a similar abundance.

The Simpson's Diversity Index takes into consideration not only the species richness but also the relative abundance of each species. The Simpson's Diversity Index is as follows:

$$D = 1 - \left(\begin{array}{c} \Sigma n(n-1) \\ \hline N(N-1) \end{array} \right)$$

n= the total # of organisms of a N= the total # of organisms of

Let's assume you took wildflower samples from a 4x4 ft field area. Here is your data:

	Species	Number (n)	n(n-1) 72 0 6	Putting the numbers into the formula		
	Dandelion	9				
	Chicory	3		90		
	Black-eyed Susan			D = 1- = .67		
	Conoflower			17(16)		
	Total	N=17	$\Sigma n(n-1) = 90$			
to	ok wildflower samp	les from a dif	t 4:4 it lield	rea. Here s your data:		

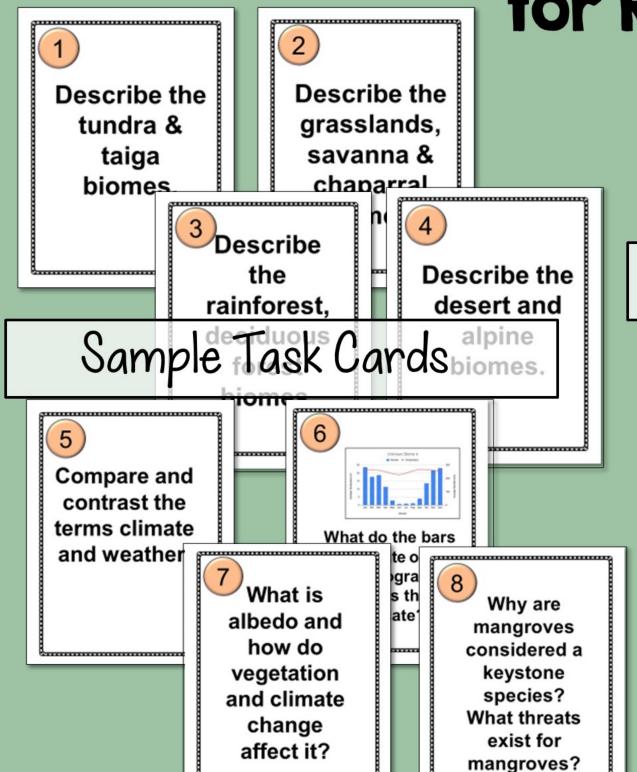
3. Which biome (1

Shrimp farming. Shrimp farmers in Aslan countries divert the natural flow of water and d mangroves to charte intificial ponds for Asing phrimp. These dense shrimp photolations require chamical applications and the control of the production of the

*Note: Think about where this flyer would be posted (US, Asia, etc.) and focus on the threat that is most applicable to that region.

- -An eye-catching headline, title or slogan
- -Visuals (photographs or pictures)
- -2+ benefits of mangrove swamps
- -An explanation of how the local community could help to conserve mangrove forests

14 Editable Task Cards for Review



Using Editable Task Cards (

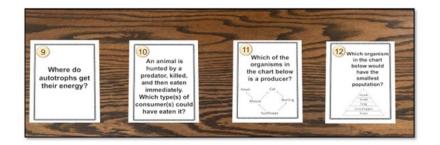
How to set-up:

- 1. Print the cards on cardstock or paper.
- Cut the pages so that each card is separate. If you'd like to use them in future years, it may be worth laminating them to protect them from student writing and other damage.
- 3. Place each task card at a seat around the room.



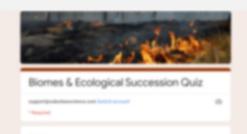
Modifications:

- · These task cards are editable so you can change the text on any card.
- There are additional cards at the end of the document for adding questions. Be sure to add the correct number, as well!
- If moving around your room isn't possible, you can have students pass the cards in one direction.
- Other options:
 - Students can use notes or not depending on the level of memorization you expect prior to reviewing.
 - Students can work in pairs, which adds confidence.



Assessments

Editable Online Quiz through Google Forms



Sample Quiz Questions (blurred on preview to prevent cheating)

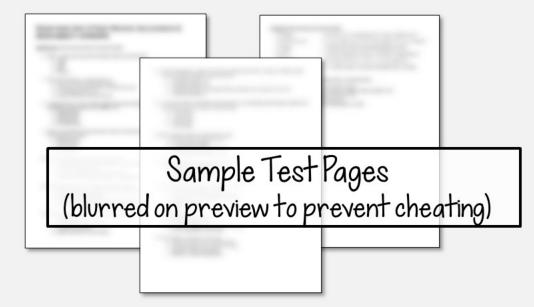


- 11 questions
- Fully editable
- Answer key included for automatic grading

Editable Unit Test

- 14 multiple choice questions
- 5 free response questions

Two Versions: Honors & Regular





Student answer sheet & answer keys included (both fully editable)

I'd love to hear from you!

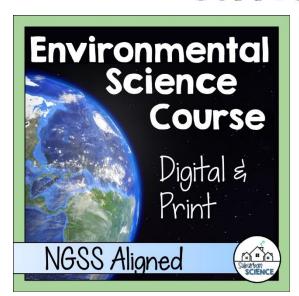
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Sincerely,
Anne from Suburban Science