

Ecology & the Environment Lab Station Bundle

Includes 15 Activities



Each included resource contains 7 unique Lab Station Activities to get your students out of their seats and engaged in their learning.



Ecosystems Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Classification of Living Things Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Photosynthesis Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Earth's Seasons Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Ecological Succession Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Climate Change Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Plant Sexual and Asexual Reproduction Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Interactions Within Ecosystems Lab Station Activity



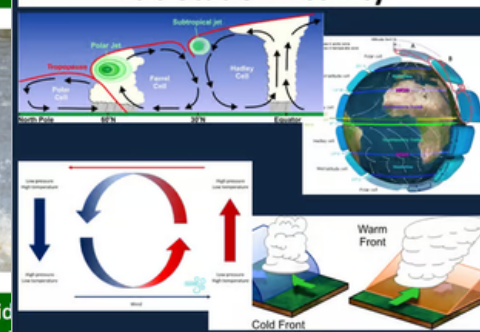
7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Energy Flow In Ecosystems Lab Station Activity



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Meteorology Lab Station Activity



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Biomes Lab Station Activity



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Photosynthesis and Cellular Respiration Lab Station Activity



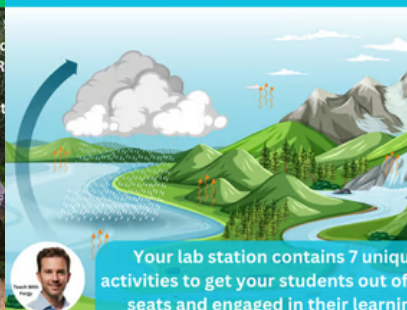
Your lab station contains 7 unique activities to get your students out of their seats and engaged in their learning.

BIODIVERSITY AND INVASIVE SPECIES Lab Station Activity



- ✓ Interactive Lab
- ✓ Biodiversity and Invasive Species R
- ✓ No-Prep Setup
- ✓ Bonus Word Act

Carbon and Water Cycle Lab Station Activity



Your lab station contains 7 unique activities to get your students out of their seats and engaged in their learning

Watersheds Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Differentiated Stations

Little to no prep, just print and go.

7 unique station activities.

Each station tests your students' knowledge and provides a fantastic learning opportunity for your kids to learn through assessment



- 1. Get Hands-On**
- 2. Research**
- 3. Explain Yourself**
- 4. Applicability Reading**
- 5. Test Your Knowledge**
- 6. Learn From The Expert**
- 7. Become the Question Master**

Save your time by utilizing dry labs that are all set to go. Just print and place them around the room.

Station 1

Get Hands-On – Draw and label the moon as you see it. What can you see? What can't you see?

Station 2

Research – Using your search engine research: What are some common traits of invasive species? Provide 3 examples.

Station 3

Explain yourself – Write down an opinion to the following question in paragraph form. You are **NOT** permitted to use your device.

Station 9

Become The Question Master – You must create 2 multiple-choice questions, 2 true/false questions and 1 short answer question. You must also supply the answers and you may not re-use any of the questions you have seen in this lab.

Station 4 Rest Station

Use this time wisely. Complete any station work not yet finalized.

Station 5

Applicability Reading – Read the following information article and answer the following 5 multiple choice questions.

Station 6

Test Your Knowledge – Answer the following 5 multiple choice questions.

Station 7

Learn from the expert – Using a classroom computer or your own device, watch the following video clip and answer the associated questions. You may stop the video as often as you like.

Station 8 Rest Station

Applicability Reading – Why is Biodiversity in Crisis?

Instructions: Read the following information article and answer the associated questions found below in the Applicability Reading section of your passport.



- Threats responsible for today's crisis.
- Coral reefs provide food, storm protection, jobs, recreation and other income sources for more than 500 million people worldwide yet 70% of coral reefs are threatened or destroyed.
 - 18,788 species out of 52,027 so far assessed are threatened with extinction.
 - Of the world's 5,400 mammals, 28 are Extinct or Extinct in the Wild, with 188 Critically Endangered, 144 Endangered and 465 Vulnerable.
 - 1,891 of the planet's 6,291 amphibians are in danger of extinction, making them the most threatened group of animals known to date.

With the current biodiversity loss, we are witnessing the greatest extinction crisis since the dinosaurs disappeared from our planet 65 million years ago. Not only are these extinctions irreversible, but they also pose a serious threat to our health and wellbeing.

What are the main threats to biodiversity?

Threats to biodiversity are numerous and human activity is responsible for most of them.

- Habitat loss and degradation affects 80% of all threatened birds, 80% of the threatened mammals assessed and 80% of the threatened amphibians.
- Introductions of invasive alien species that establish and spread outside their normal distribution. Some of the most threatening invasive species include rats and cats, green crabs, silver cholla, the African tulip tree and the brown tree snake. Introductions of alien species can happen deliberately or accidentally, for example, by airplanes "fish-hauling" in containers, ships, cars or air.
- Over-exploitation of natural resources. Resource extraction, hunting, and fishing for food, pets, and medicine.
- Pollution and diseases. For example, excessive fertilizer use leads to excessive levels of nutrients in soil and water.

- Human-induced climate change. For example, climate change is altering migratory species patterns, and increasing coral bleaching.

What about climate change?

Biodiversity and climate change are very closely related issues. Biodiversity is strongly affected by climate change as we need to make additional efforts to minimize the negative influence of other factors, such as over-exploitation, habitat loss and fragmentation, pollution, and the spread of invasive alien species. This way we can ensure that ecosystems are less vulnerable and more resilient to the increasing threat posed by climate change. But climate change can also target benefits from conserved biodiversity and particularly healthy ecosystems when these are placed at the very center of the efforts to tackle climate change.

Learn From The Expert

Instructions: Go to <https://you.gd/kuhA3j> and watch the video. While you are watching the video, answer each question and place your answer in the Learn From The Expert section of your passport. You may re-watch the video as many times as you like in the allotted time. Furthermore, you may re-watch the video while you are at one of the work stations to make sure you record the URL on your passport.

1. What percentage of biodiversity loss is caused by invasive species?
 2. What is the reproductive characteristic common to invasive species?
 3. What is probably the most widely known case of invasive species?
 4. Why were they originally brought there?
 5. What was the transportation method for the spread of the Black Leg?
- Invasive Species don't always play a negative role. Provide one example of an invasive species that was beneficial.

Test Your Knowledge

Instructions: Choose the correct answer and place it in the Test Your Knowledge section of your passport. Follow the answer with an explanation for how/why you chose it.

1. Biodiversity is measured by:
 - a) counting the number of animals of a determined species.
 - b) counting the number of species in a specific habitat or ecosystem.
 - c) counting the number of masculine species in a specific habitat or ecosystem.
 - d) counting the number of feminine species in a specific habitat or ecosystem.
 - e) none of the above.
2. The human species depends on biodiversity for its survival because:
 - a) it shares the air we breathe.
 - b) it produces O₂.
 - c) it produces water.
 - d) it shares our circulatory system.
 - e) none of the above.
3. Vulnerable species are at risk because:
 - a) they are close to extinction on a continent.
 - b) they are extinct.
 - c) of the increasing number.
 - d) of the declining number.
 - e) they are close to extinction on a country.
4. Native species:
 - a) are found in an area as a result of natural processes only.
 - b) are found in an area as a result of artificial processes only.
 - c) can introduce diseases previously found in other regions or countries.
 - d) reduce the water quality.
 - e) reduce the beauty of the landscape.
5. Invasive species can be controlled by:
 - a) bringing in a species from another location that can be used to hunt and kill them.
 - b) bringing in similar species.
 - c) bringing in a species from the hometown of the invasive species.
 - d) altering the ecosystem.
 - e) introducing diseases.

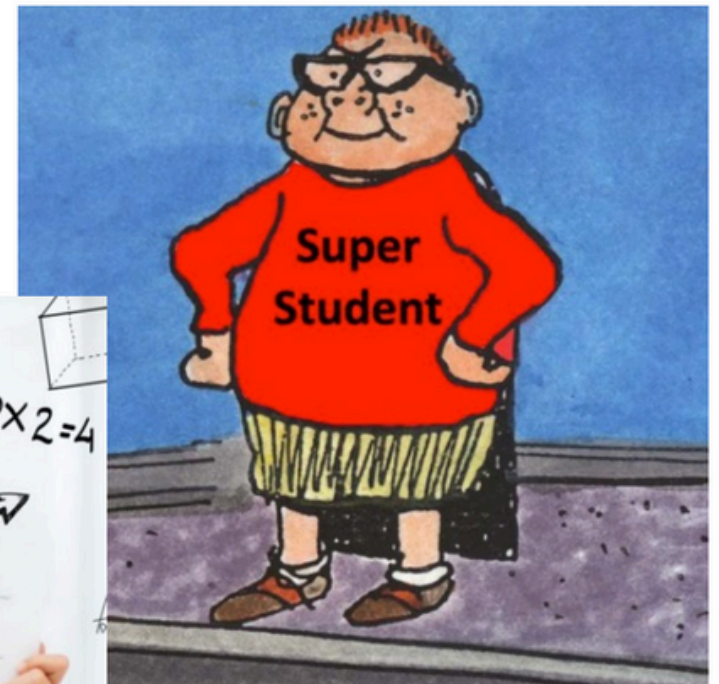
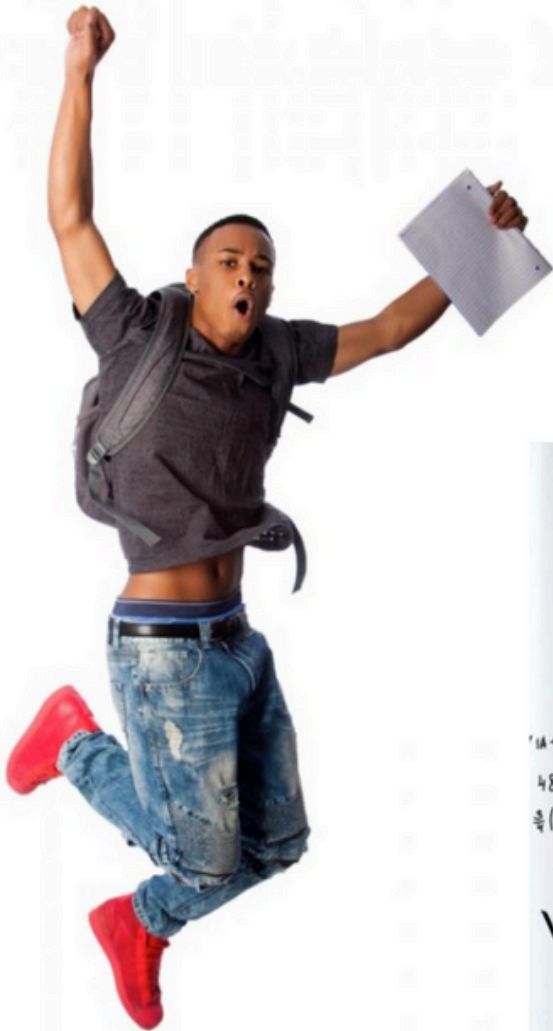
Teacher Prep and Getting Started

1. **Print the station cards and place them around the room.**
2. **Print one Passport (where they record their answers) per group.**
3. **Divide the class into 9 groups and place one group at each station with their passport**
4. **Set a timer for 6-7 times and tell the groups to begin.**
5. **Once the timer goes off, groups proceed to the next station in sequence (1 ➡ 2, 9 ➡ 1, etc.)**
6. **Ensure you ensure that groups will have time to complete all stations. Once the last station is complete, have your students submit their passports.**
7. **Each activity includes a word search and scramble that students can complete if they have extra time.**
8. **I typically will mark only 2-3 stations.**

Lab Station Buyer Comments

- **"LOVE LOVE LOVE!!!"**
- **"Wow. Simply amazing!"**
- **"My students absolutely loved this and begged for more"**
- **"I cannot say enough good things about these lab stations. LOVE THEM. Perfect for a class period or when you don't want to set up a wet lab. I just adore these."**
- **"THIS WAS AN AWESOME ACTIVITY!"**
- **"Used this today and my freshman LOVED it! The lesson provides opportunities for the students to both be creative and demonstrate learning. They were engaged the whole time and passed in quality work. Will definitely be looking for your other station activities to use in my classroom."**
- **"Awesome resource. I am using this instead of a paper test. Much more inclusive learning!"**
- **"My kids loved it. I loved it. Wonderful resource."**
- **"Stations are great when you have limited equipment!"**

Create engagement and let them reach their potential



Incorporate Technology and Increase Collaboration

