

Complete 5E Lesson Bundle

- **Lessons**
- **Activities**
- **Assessment**

 **SCROLL**
to take a look inside!

Ecosystems - Sustainability of Terrestrial & Aquatic Ecosystems **5E Science Lesson**

- Teaching Timeline
- Grade 9-12

- Lessons
- Activities & Assessment



The 5 E's



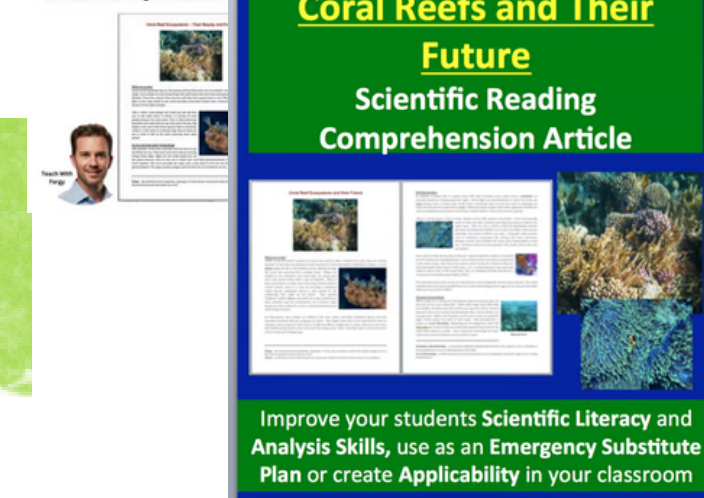
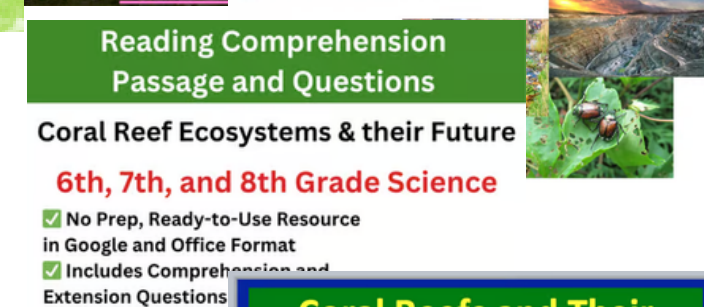
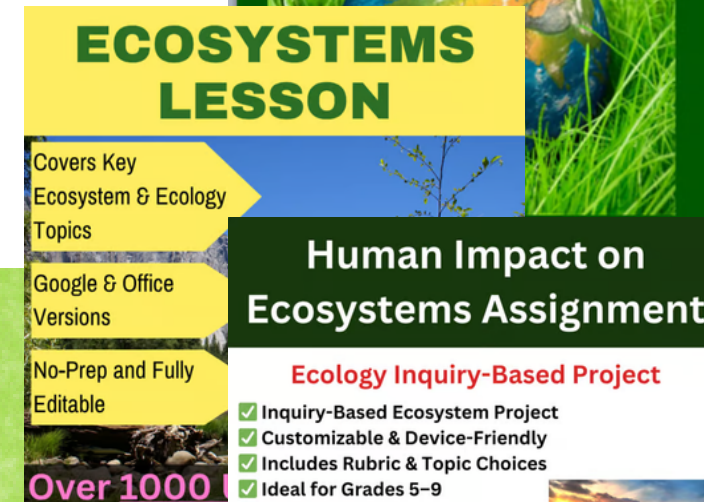
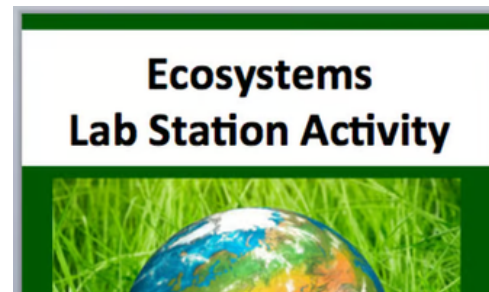
✓ **Engagement Phase** - Creates interest and excitement for your students by asking questions and probing their initial conceptions.

✓ **Exploration Phase** - Students use and develop creative thinking skills, make observations, record results, and make connections through an investigation → Lab Station Activity

✓ **Explanation Phase** - This is the instructional phase where concepts are presented to the students in a clear and applicable way → Lesson.

✓ **Elaborate Phase** - This phase involves the students completing an activity or assignment that forces them to expand their thinking and knowledge of the topic. They will propose solutions and extend their learning to new situations → Scavenger Hunt Activity

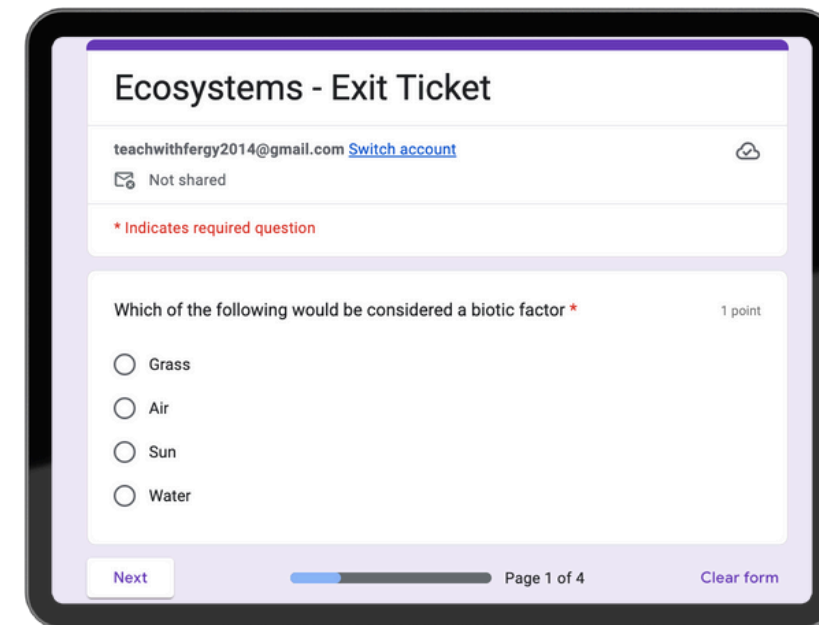
✓ **Evaluate Phase** - Your students will demonstrate their understanding and evaluate their own progress through an assessment → activity, assignment, or quiz.



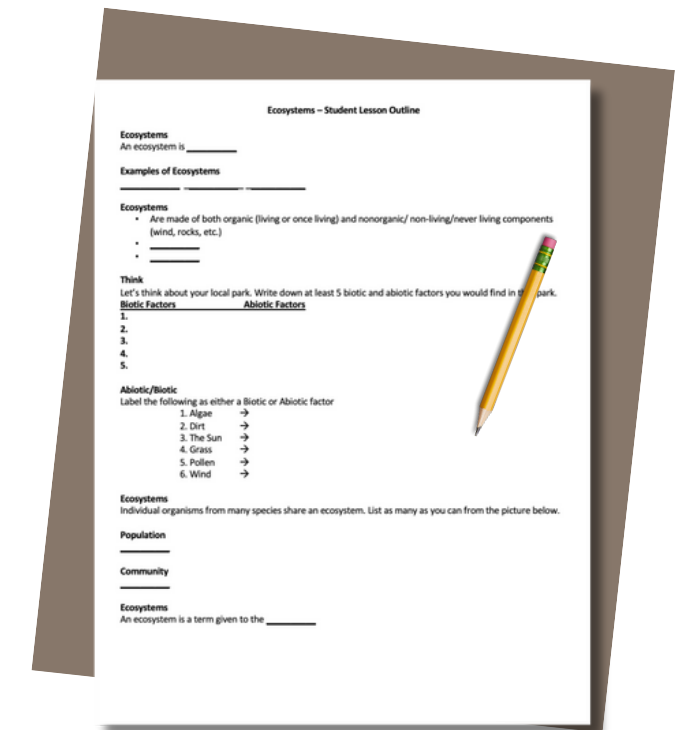
1 Fully Editable & Engaging Lesson



Google Classroom Ready
One-Click Google Slides Access



Videos embedded
directly in your lesson



Student Notes

Student and Teacher Versions

★★★★★ Extremely satisfied - Awesome PowerPoint and the worksheet went along well with it to keep students engaged!

3 Engaging Activities

✓ 1 Lab Station Activity with 7 Engaging Station Tasks

✓ Human Impact on Ecosystems Project

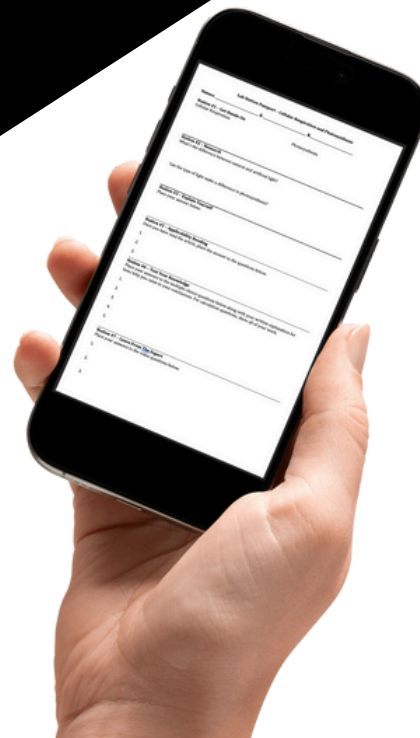
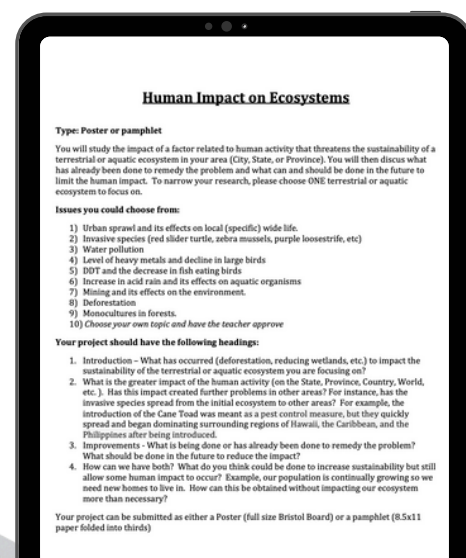
✓ 1 Reading Comprehension Activity



Human Impact on Ecosystems Assignment

Ecology Inquiry-Based Project

- ✓ Inquiry-Based Ecosystem Project
- ✓ Customizable & Device-Friendly
- ✓ Includes Rubric & Topic Choices
- ✓ Ideal for Grades 5-9



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, rewind and restart as often as you like during the time frame. The video can be found here - <https://goo.gl/GaW6QI>

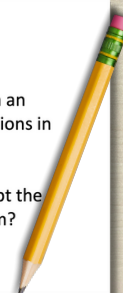
Station 1

Get Hands-On - Draw a very basic ecosystem and include the following: Water, the Sun, a Frog, a Dead Tree and Fish. You must then point out which are biotic and which are abiotic factors.

Station 3

Explain yourself - Write down an opinion to the following questions in paragraph form.

How can human actions disrupt the abiotic factors of an ecosystem?



MY 5E LESSON BUNDLES

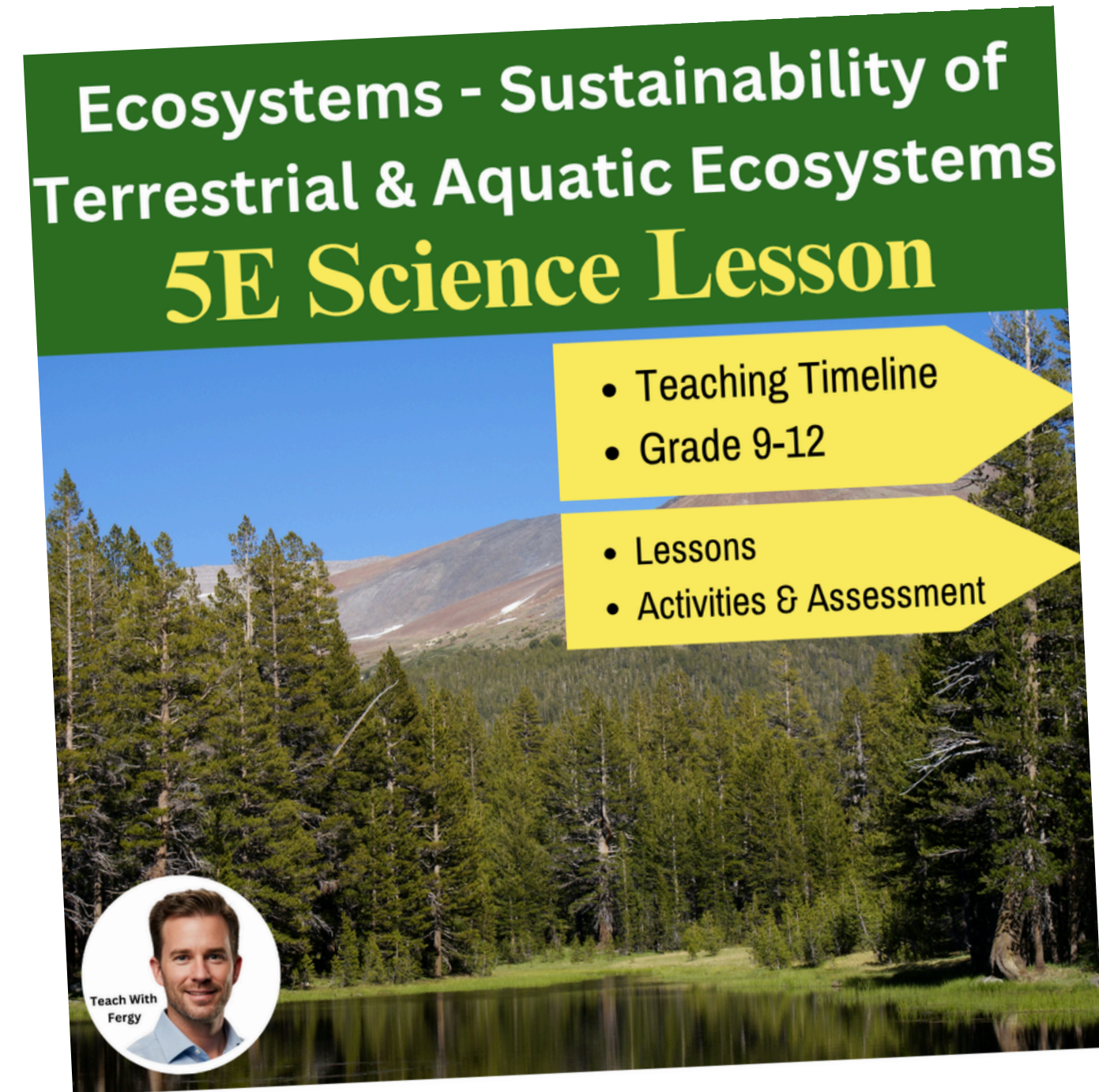
SOLVE...

- ★ **Prep-time crunch** — ready-to-use slides, stations, activities, and quizzes cut planning to near zero.
- ★ **Engagement** — hands-on stations + readings and projects keep students active and curious.
- ★ **Unit flow** — 5E structure (Engage → Evaluate) gives a coherent, day-by-day sequence.
- ★ **Assessment** — activities, assignments, and auto-graded quizzes, provide evidence of learning that is quick to mark.



BY THE END OF THIS BUNDLE, STUDENTS WILL UNDERSTAND

- Investigate factors related to human activity that affect **terrestrial and aquatic ecosystems**.
- Be able to explain how humans affect ecosystem sustainability.
- Demonstrate an understanding of the changing nature of ecosystems.
- Describe what an ecosystem and the biotic & abiotic factors that make it up.
- Gain an appreciation for the importance of sustainability and how fragile our ecosystems are.



Daily Teaching Schedule

Day-by-day teaching schedule so you'll know what to teach and when each day.

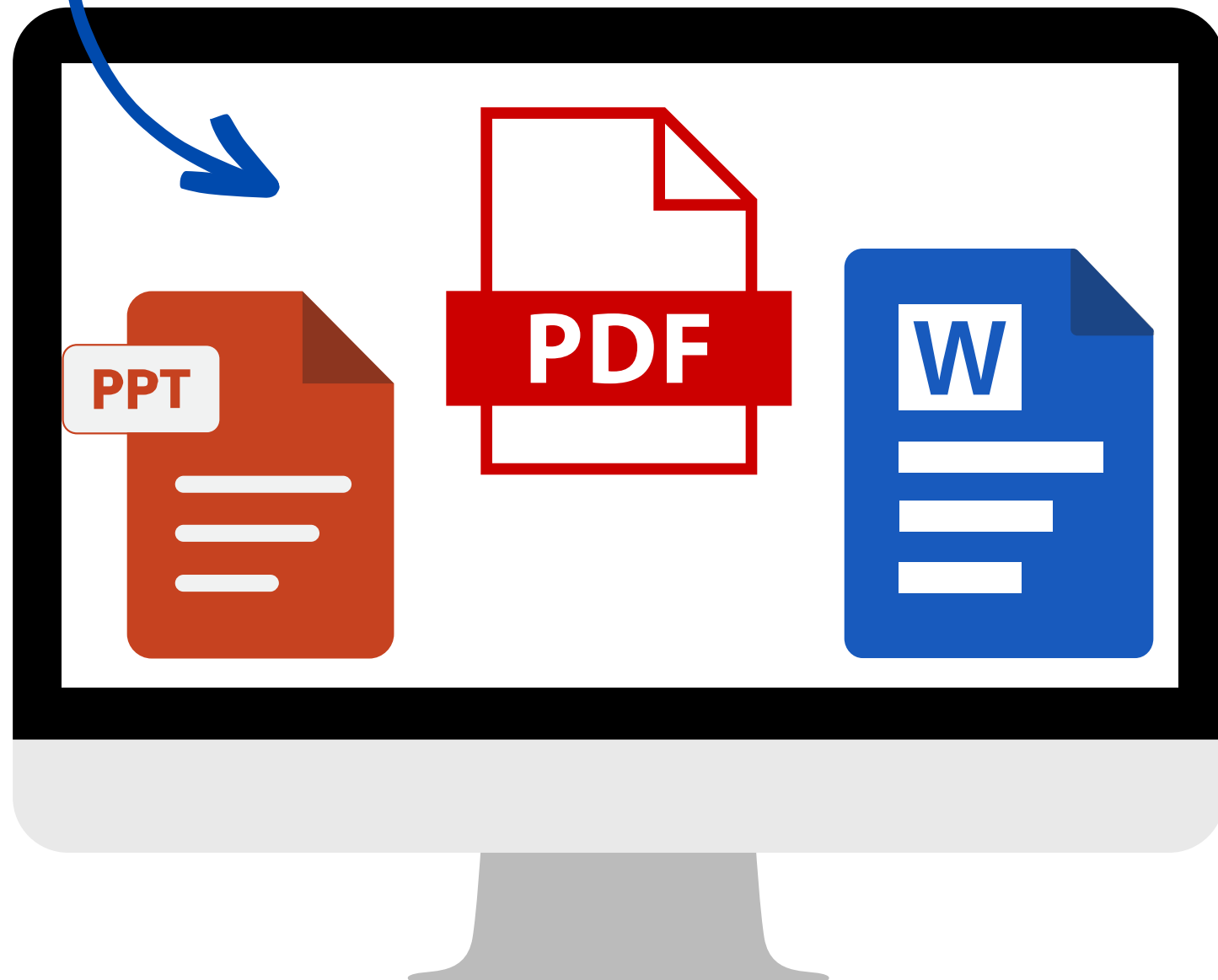
“★★★★★ Extremely satisfied - The lesson has an incredible amount of depth. As an avid fan of guided notes, I thought this guided note presentation was amazing!”

Ecosystems – 5E Lesson		
Grades 7-10	Ecosystems	Ongoing
Lesson Objective: Students will: - Investigate factors related to human activity that affect terrestrial (specifically coral reef ecosystems) - Be able to explain how humans affect the sustainability of the environment - Demonstrate an understanding of the changing nature of ecosystems - Describe what an ecosystem is as well as the biotic and abiotic components - Gain an appreciation for the importance of sustainability and conservation		
Possible Student Misconceptions: - The Earth is so large that humans can't really affect it - Only living things make up an ecosystem - Ecosystems don't change much over time		
Materials: 1 device (smartphone, Chromebook, laptop, tablet, or computer) - A means of projecting a PowerPoint presentation - Internet access		
Teacher Notes: - All videos can be accessed directly from the PowerPoint. To view a video, click on the video icon while in slideshow mode and it will automatically open in a new browser window. If for some reason, right-click on the image and click Edit Hyperlink or Open in New Window. - I've created a video walkthrough if needed. It can be accessed here: https://youtu.be/oCIKIP9SaDQ - I don't believe in long lessons. If you feel your students are bored, stop the PowerPoint and give them a 5-minute break. If you need more ideas, I recommend my video collection here - http://www.teachwithafairy.com are tons of brain-break videos to choose from all grouped by subject.		
Ecosystems – 5E Lesson		
Engagement Phase The Impact of Humans - Start by having your students answer the following question in as much detail as they can prior to watching the video: 1) What would happen if every human just suddenly disappeared? - Watch the video – <i>What If Humans Disappeared?</i> It can be accessed here - http://www.teachwithafairy.com/what-if-humans-disappeared/ - Once it's done, ask your students to review and revise their answer - Use their answers (old and new) to create a classroom discussion about how we shape the world around us both in a good and bad way Teacher Notes: - The video is about four minutes long - If for some reason the video doesn't play, go to www.youtube.com and type in "What if humans disappeared? ASAP Science" to locate it.		Duration 15-30 min. Teacher Role – Facilitate learning and guide student understanding Goals ☐ Connect student's experiences ☐ Create interest ☐ Ask questions ☐ Understand the objectives of the lesson
Exploration Phase Exploration – Lab Station Activity - In groups of 2-3, have your students complete <i>Exploration – Lab Station Activity</i>. Once they're done, they will submit their passport to you. Teacher Notes: - The complete instructions for my Lab Station activity can be found in the <i>START HERE – Instructions</i> file.		Duration: 55-60 min. Teacher Role – Facilitate learning and guide student understanding Goals ☐ Students receive real experience with the topic ☐ Students use and develop creative thinking

Each Phase is Clearly Described

Editable and Interactive

Office, Google,
and PDF Versions
Fully Editable



Human Impact on Ecosystems Assignment

Ecology Inquiry-Based Project

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Engaging and Colorful Lesson



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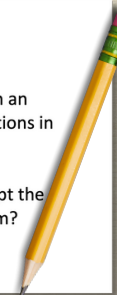
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WHAT TEACHERS SAY

★★★★★ Extremely satisfied - Absolutely love the set up for these lessons! The slides are interactive and engaging for the students and the activities that come with the lesson allow for students to gain deeper understanding of the topic being discussed!

★★★★★ Extremely satisfied - The lesson has an incredible amount of depth. As an avid fan of guided notes, I thought this guided note presentation was amazing!

★★★★★ Extremely satisfied - Loved the powerpoint and hands on activities!

★★★★★ Extremely satisfied - I was assigned grade 9 science last year, with literally ZERO science background. I found this resource (well, a lot of "Teach with Fergy" resources) a real life-saver and allowed me to understand the concepts and feel confident students were also learning too!

★★★★★ Extremely satisfied - Ecology is my favorite unit and I'm so glad I can find material like this. It is so useful!

★★★★★ Extremely satisfied - Great resources, fun to teach and to learn. My student were eager to dig deeper!