

Invasive Species

5E Lesson

The 5E model is a scientifically proven method to improve student engagement and learning in your classroom

- ✓ Engagement
- ✓ Exploration
- ✓ Explanation
- ✓ Elaborate
- ✓ Evaluate



Complete Teacher Instructions

Invasive Species – 5E Lesson

Grades 7-10	Invasive Species
Lesson Objective: Students will: - Investigate factors that cause invasive species to become - Be able to explain what an invasive species is and what - Explain how invasive species reduce biodiversity in local - Be able to list multiple examples of invasive species both - Understand the importance of maintaining populations - Improve vocabulary related to invasive species - Overcome the misconceptions many children bring with	
Possible Student Misconceptions: - All exotic species are invasive - There is no way to control an invasive species - Invasive species are natural since all animals and plants	
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 icon while in slideshow mode and it will automatically open for you. If they don't open, right-click on the image and click Edit Hyperlink. - 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 getting bored, stop the PowerPoint and give them a 5-minute break. I recommend my video collection here - http://www.teachwithfergy.com/top-10-most-invasive-species-caused-by-man/	

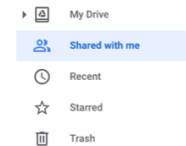
Invasive Species – 5E Lesson	
Engagement Phase Invasive Species - Prior to watching the video, have your students answer the following two questions to the best of their ability. - What is an invasive species? - Why do you think invasive species can be so dangerous to an ecosystem? - Watch the video – Top 10 Most Invasive Species Caused By Man. It can be accessed here - http://www.teachwithfergy.com/top-10-most-invasive-species-caused-by-man/ - Once it's done, ask your students to review and revise their answers	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
Teacher Notes: - The video is about six minutes long - If for some reason the video doesn't play, go to www.youtube.com and type in "Top 10 MOST INVASIVE Species Caused By Man Top10Archive" to locate it.	
Explanation Phase Explanation – Lab Station Activity In groups of 2-3, have your students complete Explanation – Lab Station Activity. Once they're done, they will submit their passport to you.	Duration: 1 hour Teacher Role – Facilitate learning and guide student understanding Goals - Students receive real experience with the - Students use and demonstrate creative thinking skills - Students make observations, record results, and make connections
Teacher Notes: The complete instructions for my Lab Station activity can be found in the START HERE – Instructions file.	
Explanation Phase Explanation – Invasive Species Lesson - Complete – Explanation – Invasive Species. This lesson is designed to be completed over one – two days - There are four embedded videos and lots of opportunities to engage and interact with your students. - This lesson covers the following topics: - Invasive vs. Native Species - The Effect of an Invasive Species on an Ecosystem - The Small Asian Mongoose - Controlling Invasive Species 5 Extreme Invasive Species	Duration: 1-2 hours Teacher Role – Explain concepts by presenting material found in the presentation.

Teacher Notes: - No prior knowledge is required - All videos can be accessed directly from the PowerPoint. To retrieve them, click on the video icon while in slideshow mode and it will automatically open for you. If they don't open, right-click the image and select Edit Hyperlink or something similar. - I've created a video walkthrough if needed. It can be accessed here - https://youtu.be/oCIKIP9SaDQ - I have also enclosed a .PDF version of both the teacher and student versions	Goals - Students develop understanding of the content - Observations and experiences are discussed and critiqued - Students develop vocabulary - Students are able to connect the content presented to previous experiences
Elaborate Phase Elaborate – Scavenger Hunt Activity Your students will complete – Elaborate – Scavenger Hunt Activity . This activity will require your students to move beyond what was covered directly in the lesson and allow them to demonstrate why learning about our solar system is so applicable and important.	Duration: 1 hour Teacher Role – Facilitate learning and keep students focused Goal Students use their newly obtained knowledge to propose solutions and extend their learning to new situations
Teacher Notes: - Students will work in groups of two or three - Each group will only require a single device (smartphone, tablet, Chromebook, laptop, etc.).	
Evaluate Phase Evaluate Folder There are two evaluation assignments available in the Evaluate folder. Choose to do either one or both - Evaluate – Invasive Species Project - Your students will be required to research a current invasive species and present it to the class - Marking rubric is included - Evaluate – Invasive Species Reading - This reading will require your students to move beyond what was covered directly in the lesson and allow them to further develop their understanding of the seasons as well as related terminology - The reading provides an excellent opportunity to evaluate student understanding as it contains 6 comprehension questions and 4 extension questions. It is fully editable so I encourage you to remove any question(s) in order to meet the needs of your students as well as your time frame	Duration: 1-2 hours Teacher Role – Distribute and collect evaluation Goal Students are given the opportunity to demonstrate their understanding and evaluate their own progress
Teacher Notes: - A rubric is included - These assignments can be done individually or in groups	

Each phase is clearly described

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Complete Lesson

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3. Reduce the Beauty or Use of the Land

- Invasive species reduce the water quality and beauty of the landscape.
 - This will negatively impact wildlife viewing.
- Various invasive species can also prevent the enjoyment of natural activities such as swimming and boating.
 - Example: The Asian Carp



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 - _____



Teacher and Student Versions of the presentation

Invasive Species

- Invasive vs. Native Species
- The Effect of an Invasive Species on an Ecosystem
- The Small Asian Mongoose
- Controlling Invasive Species
- 5 Extreme Invasive Species



Google Slides and PowerPoint Versions Included
[Google Classroom Ready](#)

Interactive and Engaging Activities

Biodiversity and Invasive Species Lab Station Activity



7 Lab Station Activities to get you out of their seats and engaged learning

Device-Based Scavenger Hunt Invasive Species

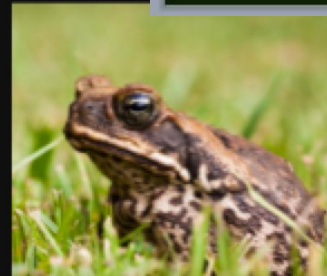


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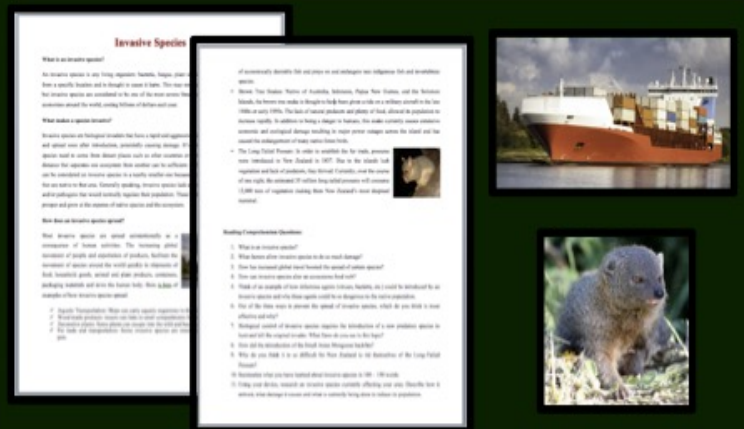
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Invasive Species Scientific Reading Comprehension Article

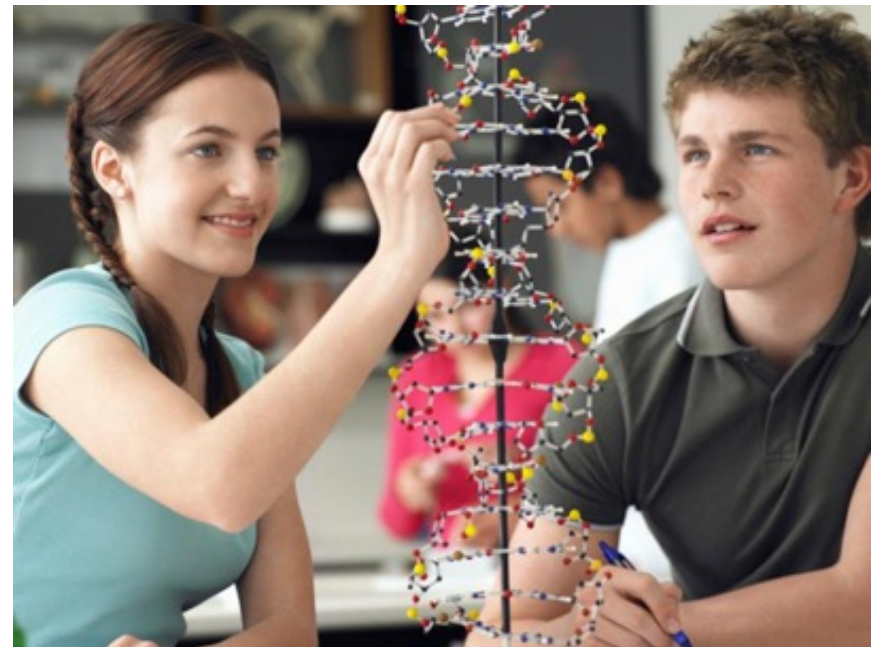


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