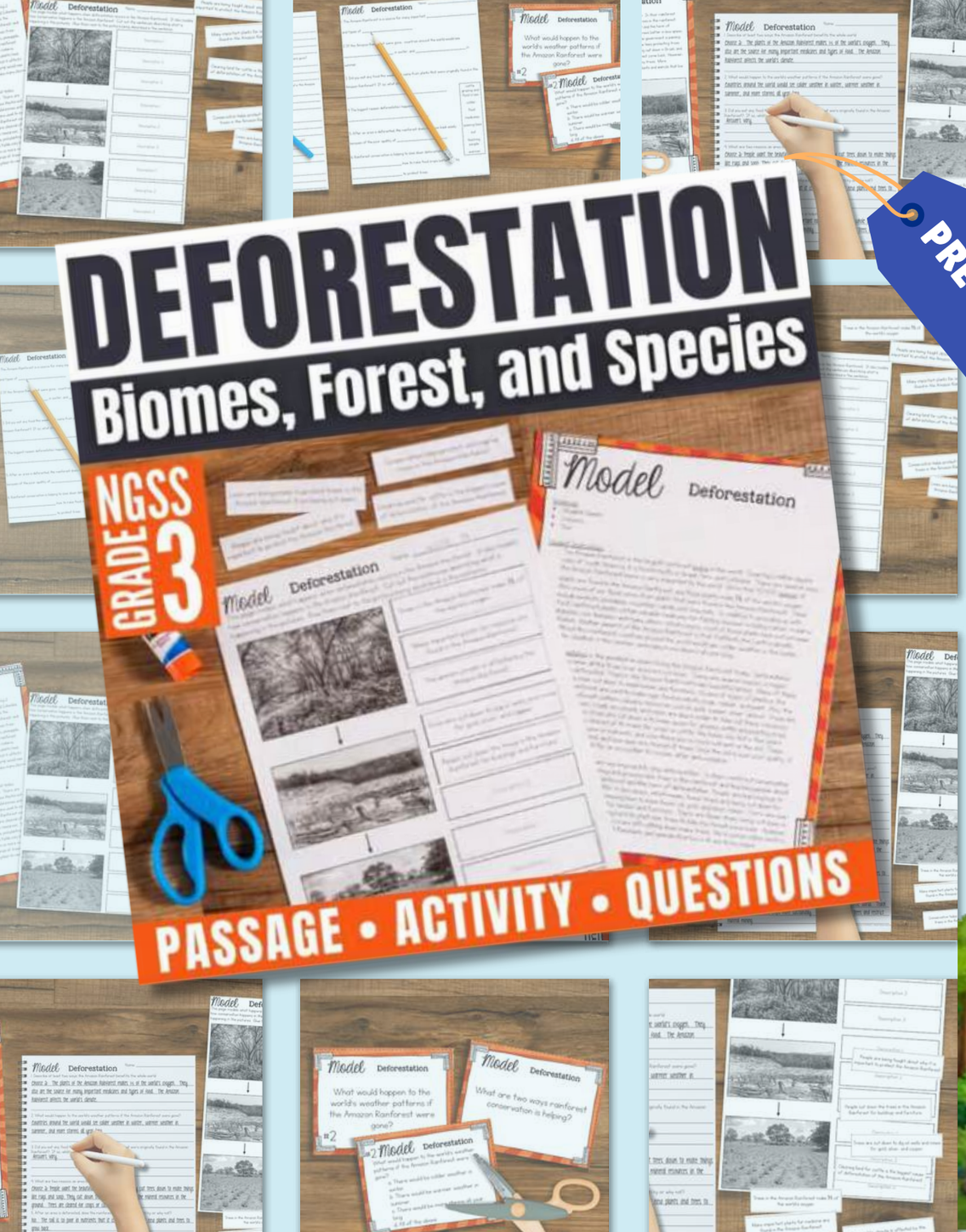


Protect Habitats, Protect Biodiversity!

3RD GRADE

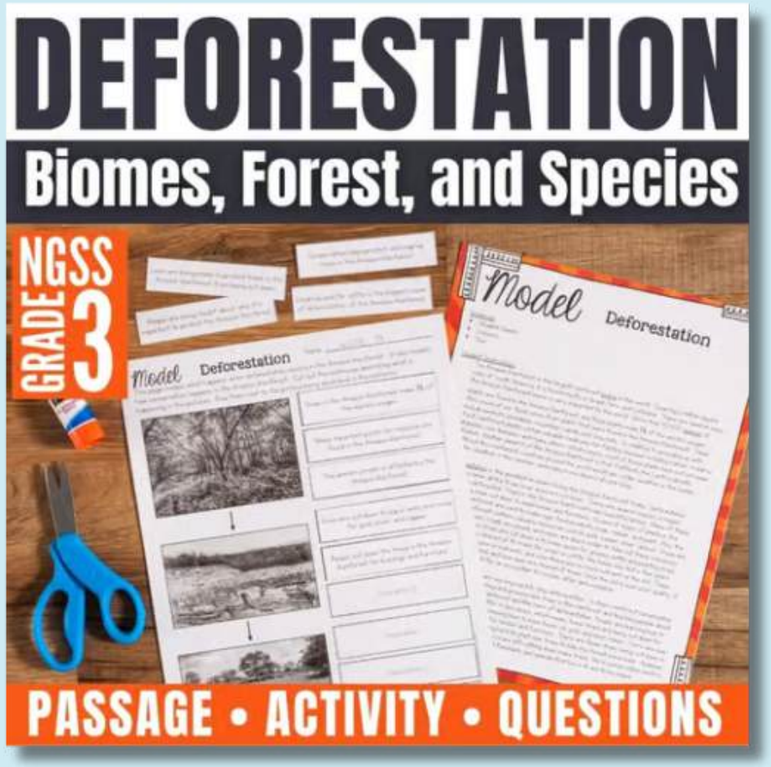
MODEL DEFORESTATION

Biomes, Forest, and Species

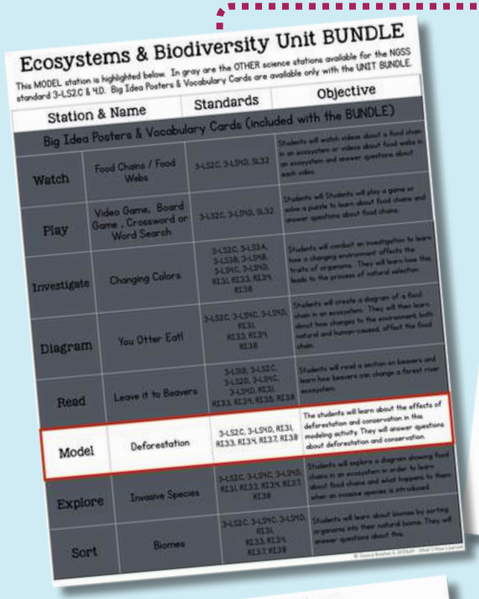
KEEP SCROLLING TO SEE WHAT'S INSIDE!



ACTIVITY OVERVIEW

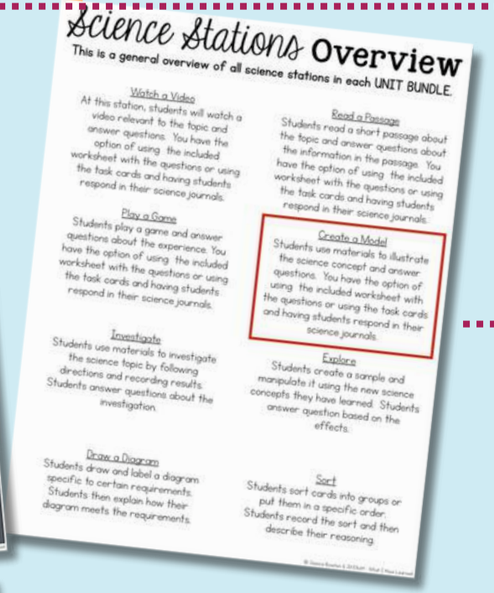


- Your students will read a passage.
- Then your students will create a model.
- Then, lastly, they will answer differentiated questions.


Ecosystems & Biodiversity Unit BUNDLE

This MODEL station is highlighted below. In gray are the OTHER science stations available for the NGSS standard 3-LS2C & 4D. Big Idea Posters & Vocabulary Cards are available only with the UNIT BUNDLE.

Station & Name		Standards	Objective
Big Idea Posters & Vocabulary Cards (included with the BUNDLE)			
Watch	Food Chains / Food Webs	3-LS2C, 3-LS4D, RI.3.2	Students will watch videos about a food chain in an ecosystem or videos about food webs in an ecosystem and answer questions about each video.
Play	Video Game, Board Game, Crossword or Word Search	3-LS2C, 3-LS4D, RI.3.2	Students will Students will play a game or solve a puzzle to learn about food chains and answer questions about food chains.
Investigate	Changing Colors	3-LS2C, 3-LS3A, 3-LS3B, 3-LS4B, 3-LS4C, 3-LS4D, RI.3.1, RI.3.3, RI.3.4, RI.3.8	Students will conduct an investigation to learn how a changing environment affects the traits of organisms. They will learn how this leads to the process of natural selection.
Diagram	You Otter Eat!	3-LS2C, 3-LS4C, 3-LS4D, RI.3.1, RI.3.3, RI.3.4, RI.3.8	Students will create a diagram of a food chain in an ecosystem. They will then learn about how changes to the environment, both natural and human-caused, affect the food chain.
Read	Leave it to Beavers	3-LS3B, 3-LS2C, 3-LS2D, 3-LS4C, 3-LS4D, RI.3.1, RI.3.3, RI.3.4, RI.3.5, RI.3.8	Students will read a section on beavers and learn how beavers can change a forest river ecosystem.
Model	Deforestation	3-LS2C, 3-LS4D, RI.3.1, RI.3.3, RI.3.4, RI.3.7, RI.3.8	The students will learn about the effects of deforestation and conservation in this modeling activity. They will answer questions about deforestation and conservation.
Explore	Invasive Species	3-LS2C, 3-LS4C, 3-LS4D, RI.3.1, RI.3.3, RI.3.4, RI.3.7, RI.3.8	Students will explore a diagram showing food chains in an ecosystem in order to learn about food chains and what happens to them when an invasive species is introduced.
Sort	Biomes	3-LS2C, 3-LS4C, 3-LS4D, RI.3.1, RI.3.3, RI.3.4, RI.3.7, RI.3.8	Students will learn about biomes by sorting organisms into their natural biome. They will answer questions about this.


Science Stations Overview

This is a general overview of all science stations in each UNIT BUNDLE.

Watch a Video
At this station, students will watch a video relevant to the topic and answer questions. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Play a Game
Students play a game and answer questions about the experience. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Investigate
Students use materials to investigate the science topic by following directions and recording results. Students answer questions about the investigation.

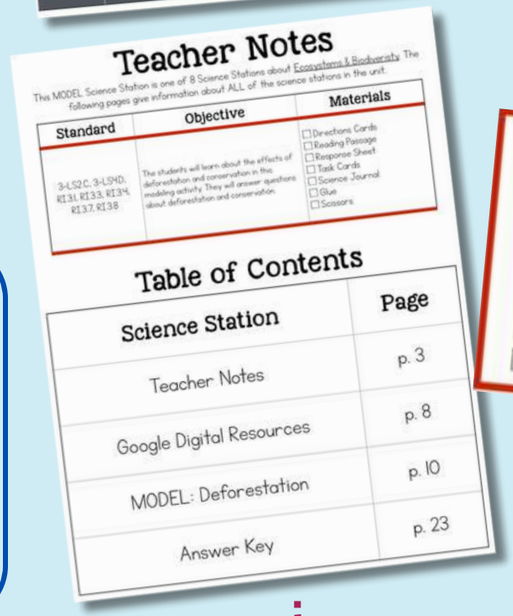
Draw a Diagram
Students draw and label a diagram specific to certain requirements. Students then explain how their diagram meets the requirements.

Read a Passage
Students read a short passage about the topic and answer questions about the information in the passage. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Create a Model
Students use materials to illustrate the science concept and answer questions. You have the option of using the included worksheet with the questions or using the task cards and having students respond in their science journals.

Explore
Students create a sample and manipulate it using the new science concepts they have learned. Students answer question based on the effects.

Sort
Students sort cards into groups or put them in a specific order. Students record the sort and then describe their reasoning.

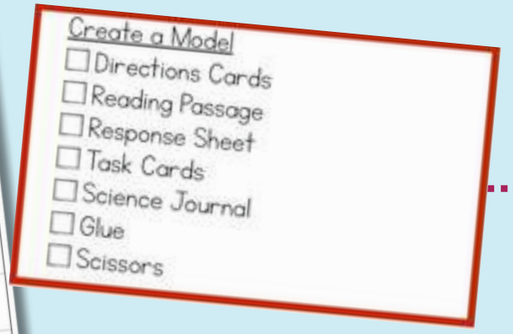

Teacher Notes

This MODEL Science Station is one of 8 Science Stations about Ecosystems & Biodiversity. The following pages give information about ALL of the science stations in the unit.

Standard	Objective	Materials
3-LS2C, 3-LS4D, RI.3.1, RI.3.3, RI.3.4, RI.3.7, RI.3.8	The students will learn about the effects of deforestation and conservation in this modeling activity. They will answer questions about deforestation and conservation.	☐ Directions Cards ☐ Reading Passage ☐ Response Sheet ☐ Task Cards ☐ Science Journal ☐ Glue ☐ Scissors

Table of Contents

Science Station	Page
Teacher Notes	p. 3
Google Digital Resources	p. 8
MODEL: Deforestation	p. 10
Answer Key	p. 23


Create a Model
- ☐ Directions Cards
- ☐ Reading Passage
- ☐ Response Sheet
- ☐ Task Cards
- ☐ Science Journal
- ☐ Glue
- ☐ Scissors

Unit Overview

Science Station Overview

Materials Checklist

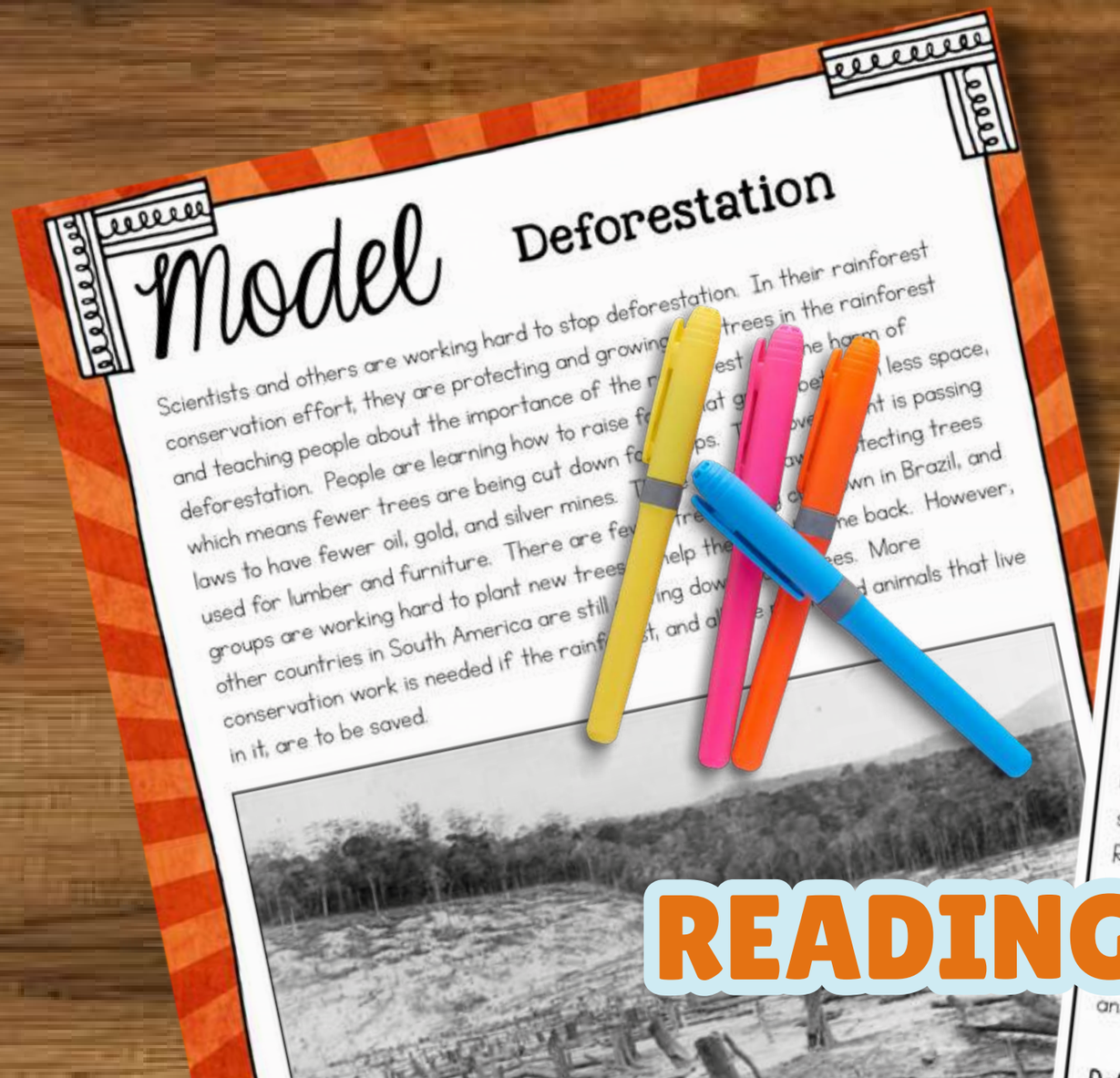
Table of Contents / Teacher's Notes

WHAT'S INCLUDED MODEL SCIENCE STATION

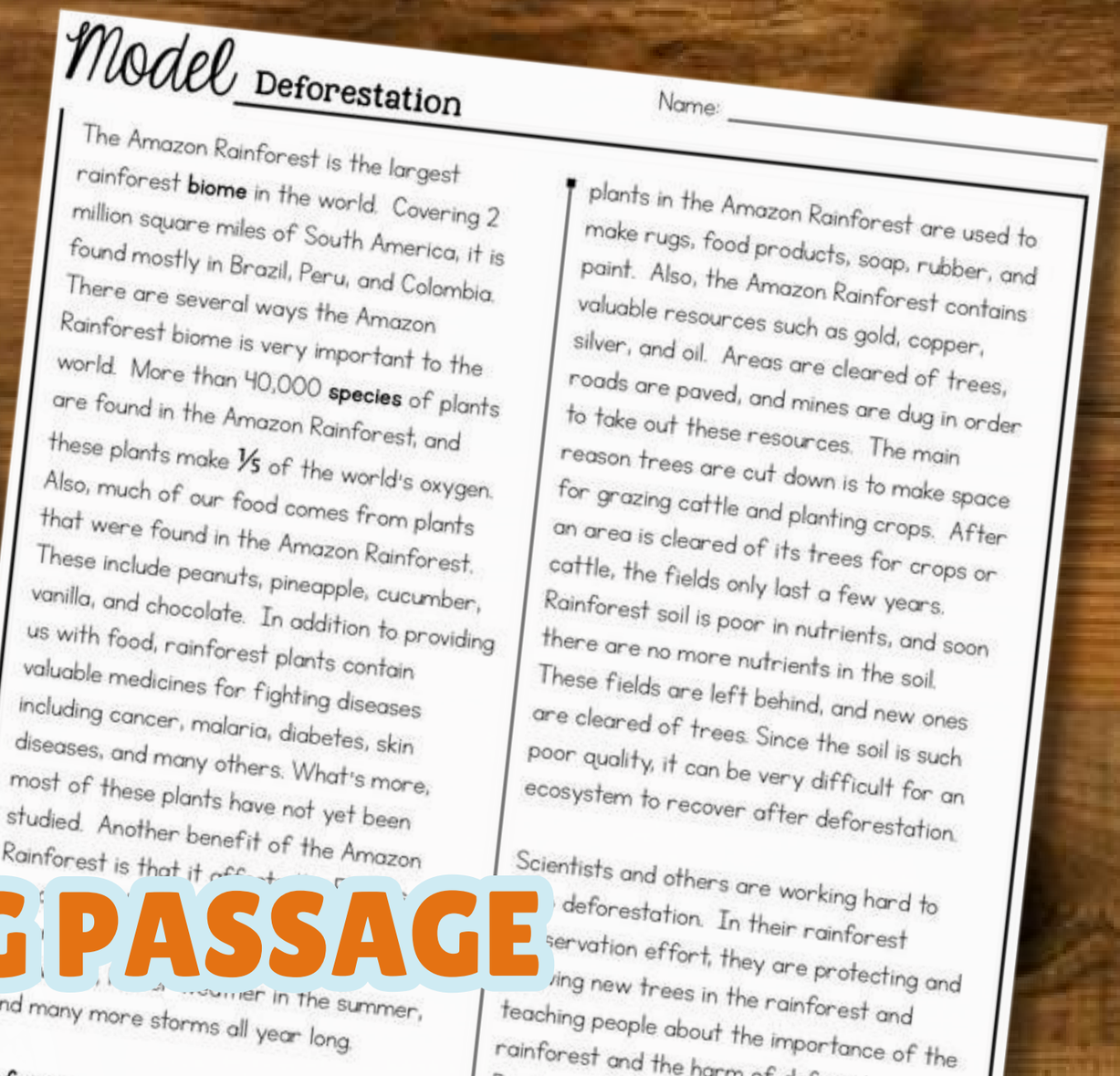
- **Teacher Notes & Materials List**
- **Student Reading Text** (2 Formats)
- **Student Instructions**
- **Hands-On Activity Sheets**
- **Differentiated Questions**
- **Answer Key**
- **Google Forms™**
- **Google Slides™**



MODEL: READING PASSAGE


Model Deforestation

Scientists and others are working hard to stop deforestation. In their rainforest conservation effort, they are protecting and growing trees in the rainforest and teaching people about the importance of the rainforest and the harm of deforestation. People are learning how to raise farm animals in less space, which means fewer trees are being cut down for pasture. That is passing laws to have fewer oil, gold, and silver mines. Protecting trees used for lumber and furniture. There are fewer trees in Brazil, and groups are working hard to plant new trees. Fortunately, the tree cover is coming back. However, other countries in South America are still losing trees. More conservation work is needed if the rainforest, and animals that live in it, are to be saved.


Model Deforestation

Name: _____

The Amazon Rainforest is the largest rainforest **biome** in the world. Covering 2 million square miles of South America, it is found mostly in Brazil, Peru, and Colombia. There are several ways the Amazon Rainforest biome is very important to the world. More than 40,000 **species** of plants are found in the Amazon Rainforest, and these plants make 1/5 of the world's oxygen. Also, much of our food comes from plants that were found in the Amazon Rainforest. These include peanuts, pineapple, cucumber, vanilla, and chocolate. In addition to providing us with food, rainforest plants contain valuable medicines for fighting diseases including cancer, malaria, diabetes, skin diseases, and many others. What's more, most of these plants have not yet been studied. Another benefit of the Amazon Rainforest is that it

and many more storms all year long.

plants in the Amazon Rainforest are used to make rugs, food products, soap, rubber, and paint. Also, the Amazon Rainforest contains valuable resources such as gold, copper, silver, and oil. Areas are cleared of trees, roads are paved, and mines are dug in order to take out these resources. The main reason trees are cut down is to make space for grazing cattle and planting crops. After an area is cleared of its trees for crops or cattle, the fields only last a few years. Rainforest soil is poor in nutrients, and soon there are no more nutrients in the soil. These fields are left behind, and new ones are cleared of trees. Since the soil is such poor quality, it can be very difficult for an ecosystem to recover after deforestation.

Scientists and others are working hard to deforestation. In their rainforest servation effort, they are protecting and ing new trees in the rainforest and teaching people about the importance of the rainforest and the harm of

READING PASSAGE

Model Deforestation

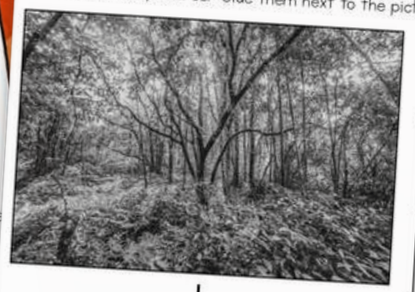
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Deforestation is the greatest problem facing the Amazon Rainforest today. Deforestation happens when all the trees in an area are cut down. There are several reasons a region becomes deforested. Trees in the Amazon Rainforest r beautiful lumber. Many of these trees have been cut down to build homes and furniture. Dozens of types of plants in the Amazon Rainforest are used to ma rugs, food products, soap, rubber, and paint. Also, the Amazon Rainforest cor valuable resources such as gold, copper, silver, and oil. Areas are cleared of roads are paved, and mines are dug in order to take out these resources. T reason trees are cut down is to make space for grazing cattle and planting After an area is cleared of its trees for crops or cattle, the fields only la years. Rainforest soil is poor in nutrients, and soon there are no more nu the soil. These fields are left behind, and new ones are cleared of trees soil is such poor quality, it can be very difficult for an ecosystem to rec deforestation.

Model Deforestation

Name: _____

This page models what happens when deforestation occurs in the Amazon Rainforest. It also models how conservation happens in the Amazon Rainforest. Cut out the sentences describing what is happening in the pictures. Glue them next to the picture being described in the sentence.



Description 1

Description 2

Description 3



Description 1

Description 2

Description 3



Description 1

Description

Description 3

Trees in the Amazon Rainforest make 1/5 of the world's oxygen.

Trees are cut down to dig oil wells and mines for gold, silver, and copper.

People are being taught about why it is important to protect the Amazon Rainforest.

Many important plants for medicine are found in the Amazon Rainforest.

People cut down the trees in the Amazon Rainforest for buildings and furniture.

Clearing land for cattle is the biggest cause of deforestation of the Amazon Rainforest.

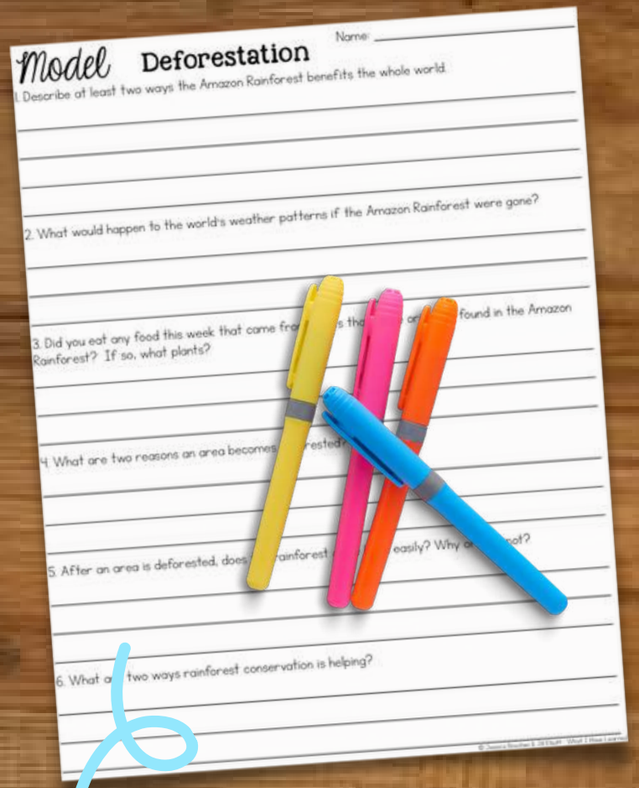
The world's climate is affected by the Amazon Rainforest.

Conservation helps protect and regrow trees in the Amazon Rainforest.

Laws are being made to protect trees in the Amazon Rainforest from being cut down.

ENGAGING ACTIVITY & WORKSHEETS

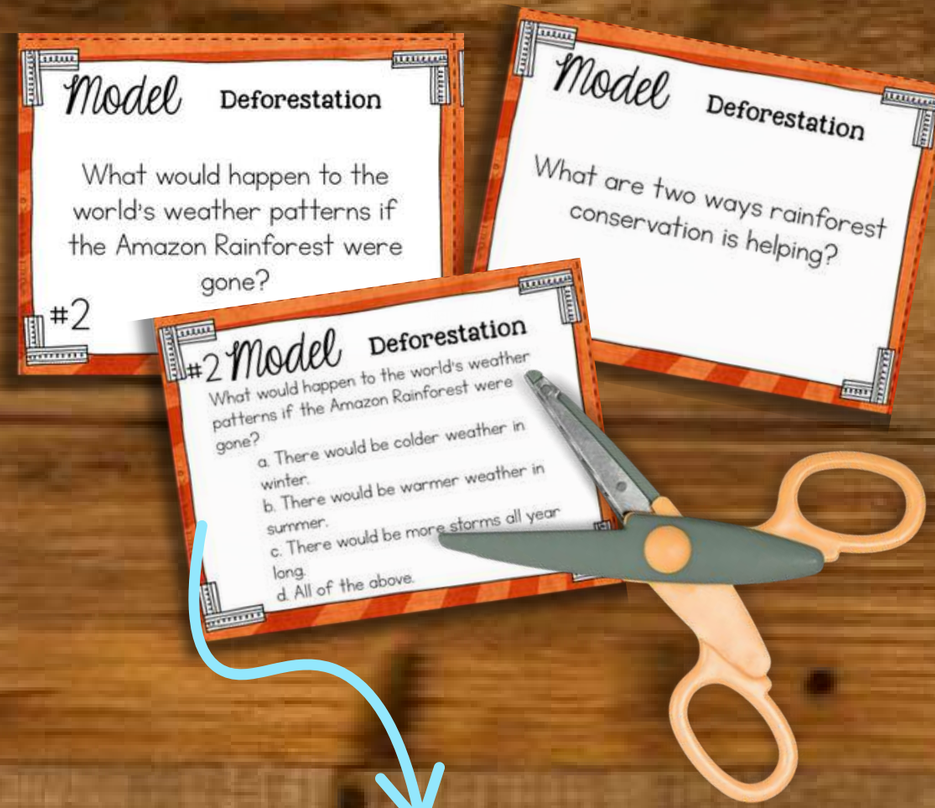
DIFFERENTIATED QUESTIONS



SHORT ANSWER



FILL-IN-THE BLANK

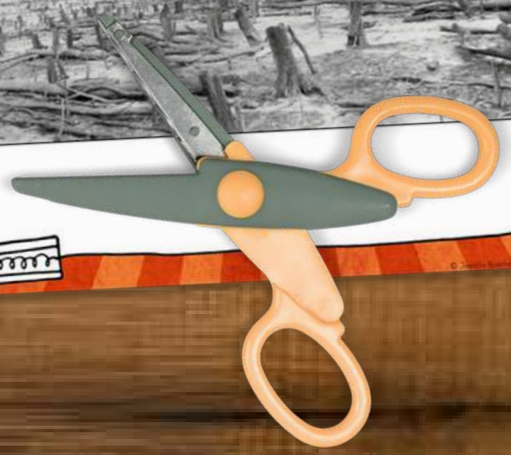


TASK CARDS: SHORT ANSWER & MULTIPLE CHOICE

Model Deforestation

Scientists and others are working hard to stop deforestation. In their rainforest conservation effort, they are protecting and growing new trees in the rainforest and teaching people about the importance of the rainforest and the harm of deforestation. People are learning how to raise food that grows better in less space, which means fewer trees are being cut down for crops. The government is passing laws to have fewer oil, gold, and silver mines. There are now laws protecting trees used for lumber and furniture. There are fewer trees being cut down in Brazil, and groups are working hard to plant new trees to help the forest come back. However, other countries in South America are still cutting down many trees. More conservation work is needed if the rainforest, and all the plants and animals that live in it, are to be saved.





Model Deforestation

Name: _____

1. Describe at least two ways the Amazon Rainforest benefits the whole world.

Choose 2: The plants of the Amazon Rainforest makes 1/5 of the world's oxygen. They also are the source for many important medicines and types of food. The Amazon Rainforest affects the world's climate.

2. What would happen to the world's weather patterns if the Amazon Rainforest were gone?

Countries around the world would see colder weather in winter, warmer weather in summer, and more storms all year long.

3. Did you eat any food t… …at were originally found in the Amazon Rainforest? If so, wha…

Answers vary.

4. What are two reasons an area b…

Choose 2: People want the beautiful… …y cut trees down to make things like rugs and soap. They cut down th… …the mineral resources in the ground. Trees are cleared for crops or cat…

5. After an area is deforested, does the rainfores… …Why or why not?

No. The soil is so poor in nutrients that it is… …new plants and trees to grow back.

6. What are two ways rainforest conservation is helpin…

Choose 2: Teaching people about how important ra… …whole world. Teach people how to raise food crops more sustainably. … trees and restrict mineral mining.

Model Deforestation

Name: _____

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Description 1

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Description 3

Description 1

People are being taught about why it is important to protect the Amazon Rainforest.

Description 2

People cut down the trees in the Amazon Rainforest for buildings and furniture.

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Trees are cut down to dig oil wells and mines for gold, silver, and copper.

Description 2

Clearing land for cattle is the biggest cause of deforestation of the Amazon Rainforest.

Description 3

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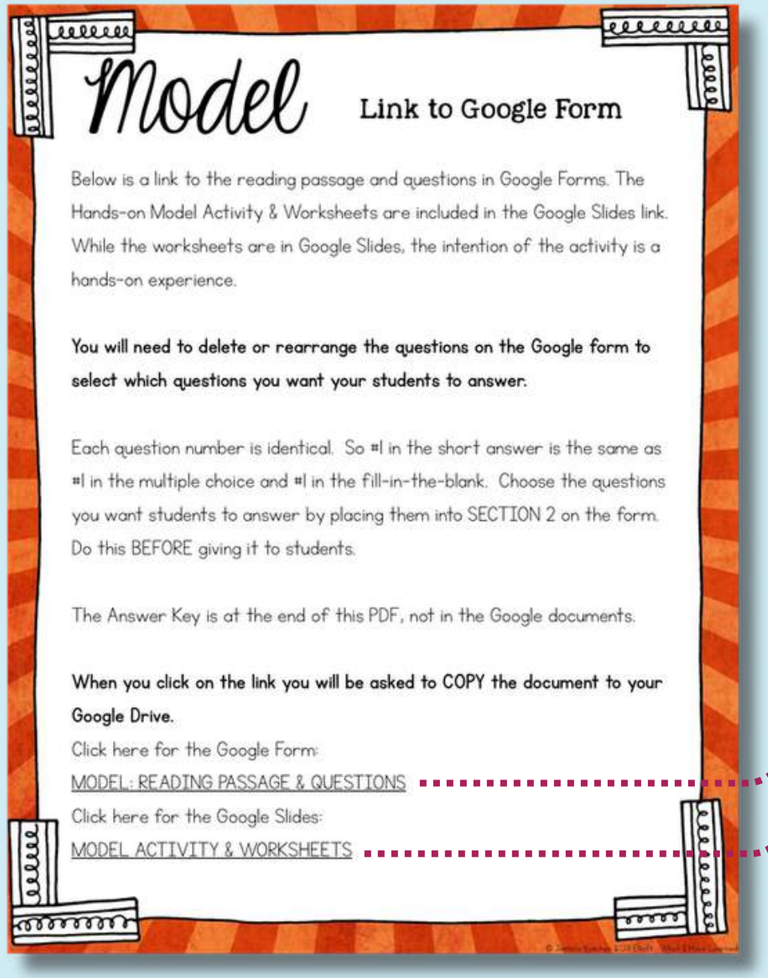
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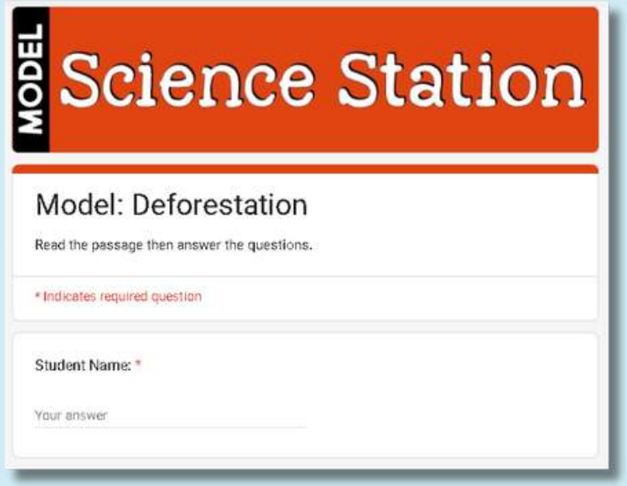
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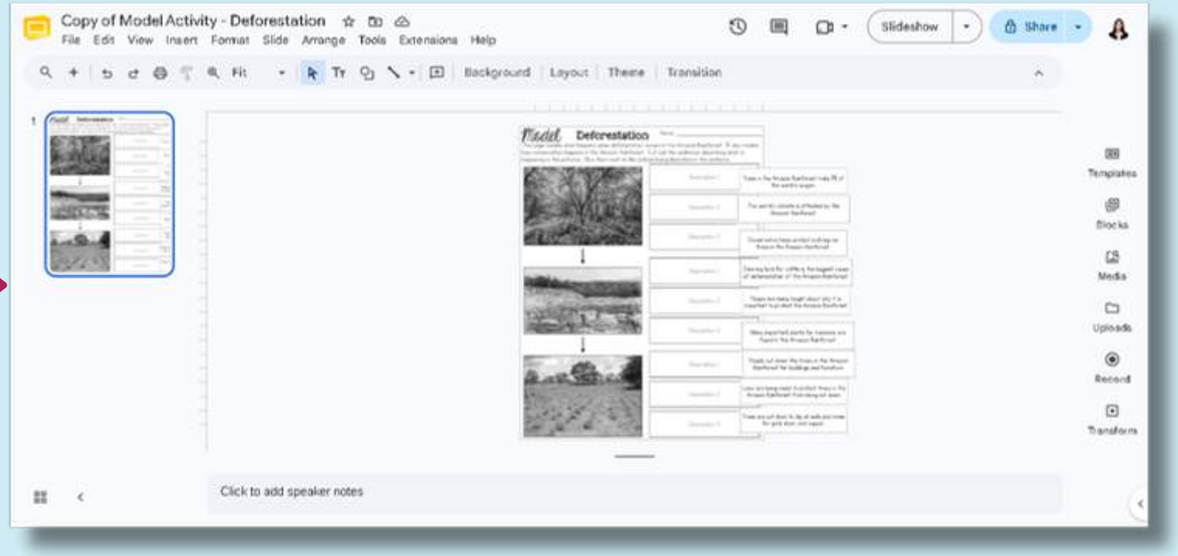
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DIGITAL VERSIONS





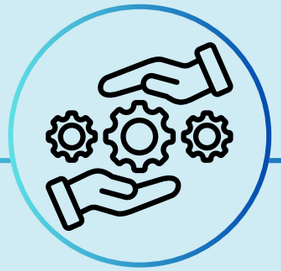


DIGITAL VERSIONS

- ✔ Google Sheet with Activity & Directions
- ✔ Google Form with Reading & Questions

Answer keys provided

YOU WILL LOVE THIS BECAUSE



Hands-On Modeling

Students cut, sort, and glue activity pieces to model deforestation and visualize changes to rainforest habitats.



NGSS-Aligned Instruction

Informational reading, vocabulary, comprehension questions, and modeling seamlessly connect life science with essential literacy skills.



Print and Digital Support Included

Hands-on learning is supported with Google Forms and Slides for flexible classroom or blended use.

TEACHERS LOVE IT!

This resource was well-organized, easy to implement, and engaging for my students.

Lauren K.

This is my first year in third grade. It was a great resource that fit in with biodiversity.

Bonnie S.





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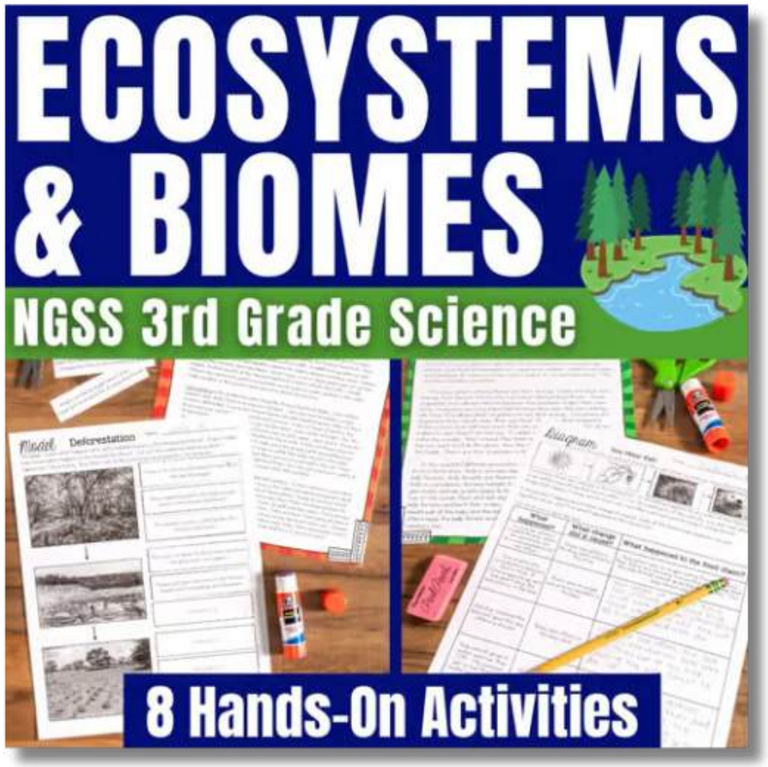
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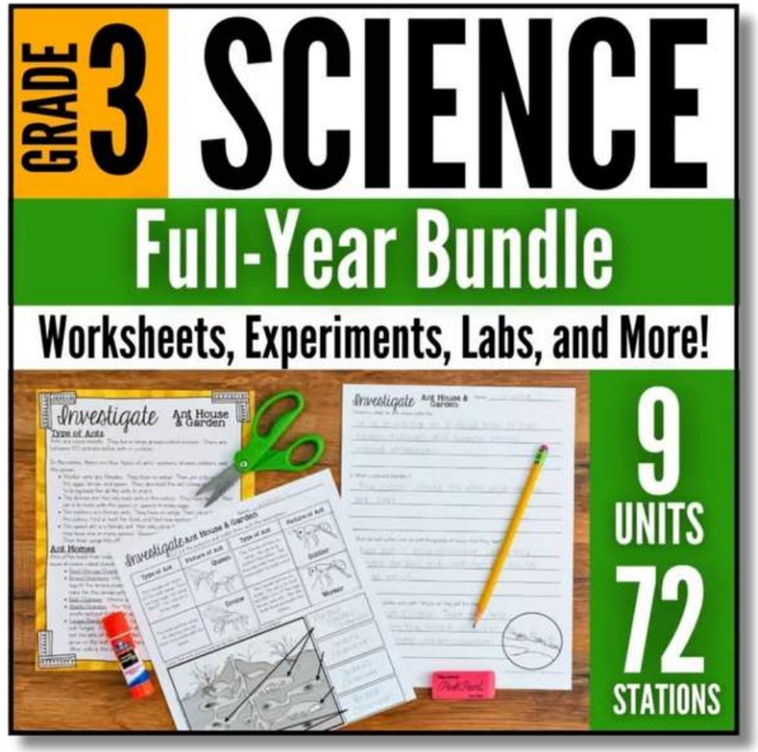
GOOD VALUE



SEE THE BUNDLE

FULL-YEAR BUNDLE

BEST VALUE



SEE THE BUNDLE

My passion is making learning accessible to all students.
I love scaffolding learning, breaking down the concepts and building them up so that students can see the connections.
I love figuring out the small components that build up to the big ideas and helping students see it all.





What I have LEARNED