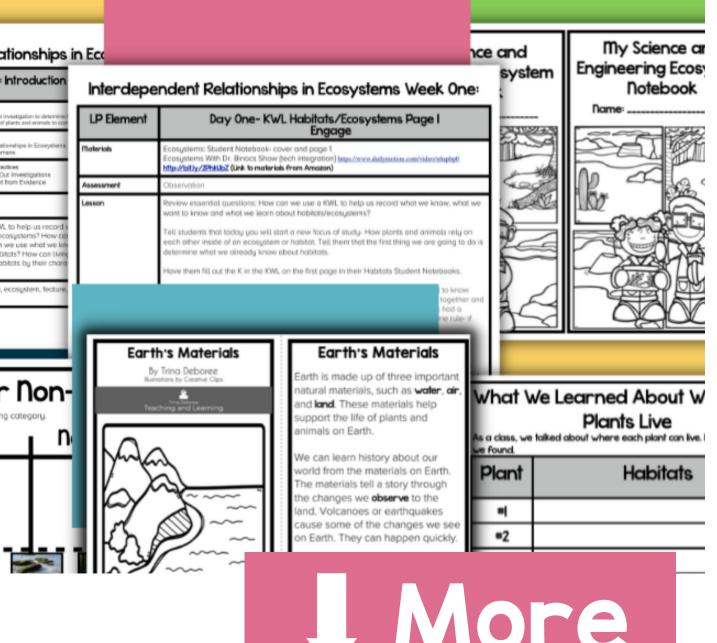
Habitats (Biomes) STEM Unit for 2nd **Grade NGSS Unit Four** This Resource STEM Unit 4: Habitats Includes: (Biomes) 30 Done for You Lesson Plans nce and nterdependent Relationships in Eco 6 Engaging Science Inquiry Activity system week One: Introductio Interdependent Relationships in Ecosystems Week One: LP Elemen Day One- KWL Habitats/Ecosystems Page nce and neering clices is Cutting sopts ritial Quest Hands-on Makerspace Activities I Nonfiction Text written for 2nd Earth's Materials graders Living or Non Plants Live Living Formative and Summative Assessment earn history about our Plant als on Earth = se some of the changes we #2 Student Notebooks Included are



STEM Units Across the Year for Second Grade





Save 50%

How do students better understand the practice of science and engineering?

3-STEM & Reading Integration

This unit integrates all STEM subjects and reading and has taken the guesswork out of your planning.

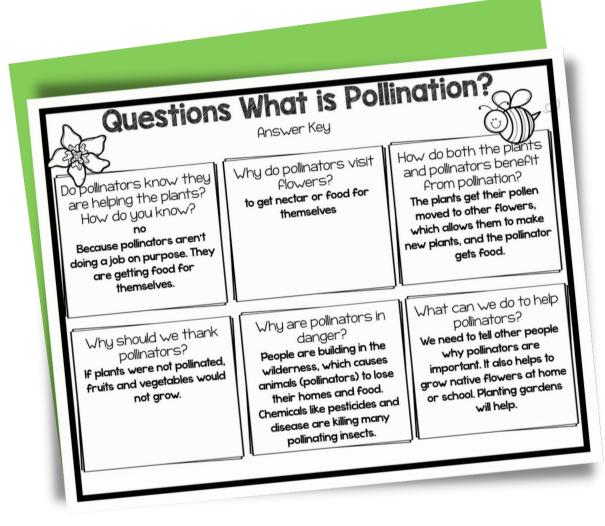
2-Offers Hands-On

By integrating content standards into your reading block you are buying back time to do hands-on activities!

I-Lesson Plans and **Activities Done**

Save MASSIVE time on lesson plans for 4 weeks!

Keep Scrolling to See Inside!



Look at a Flower-What Do You See? Observe the flower carefully. Draw a picture that shows its shape, colors, patterns, and parts. Listen to the characteristics of a flower, then record the observations for your flower. Characteristic Observation Look for the powdery substance (pollen) in the center of the flower. Use a Q-tip to smear some of the pollen into the box below and tape it in place.





Perfect for:





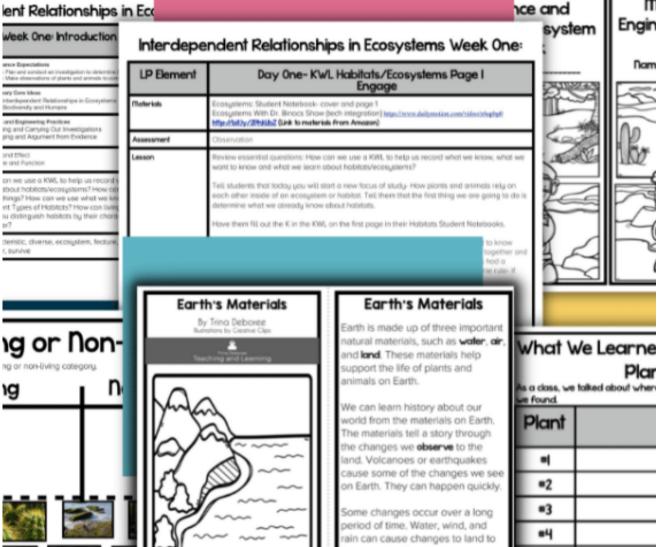
Lesson Planning

Science Inquiry

More Ideas

Integrate reading and writing and STEM in this done for you STEM unit of study.





STEM Challenges



A Closer Look at Plans

Interdependent Relationships in Ecosystems Week One:

LP Element	Day One- KWL Habitats/Ecosystems Engage	s Page I	
Materials	Ecosystems: Student Notebook- cover and page 1 Ecosystems With Dr. Binocs Show {tech integration} <u>https://www.dailymc</u> http://bit.ly/2PhkUbZ {Li	Interdepe	ndent Rel
Assessment	Observation Materials listed	LP Element	Day
Lesson	Review essential questions: How can we use a KWL to help us reconvent to know and what we learn about habitats/ecosystems? Tell students that today each other inside of an each other inside ot	Lesson	one thing that they Allow students to and add to their L At the conclusion

Standard Included in **Overview**

elationships 📶

y One- KWL Habi<mark>uus</mark> Engc

ey learn about ecosystems in the L section

do a numbered _ section, as wel

of the lesson, re

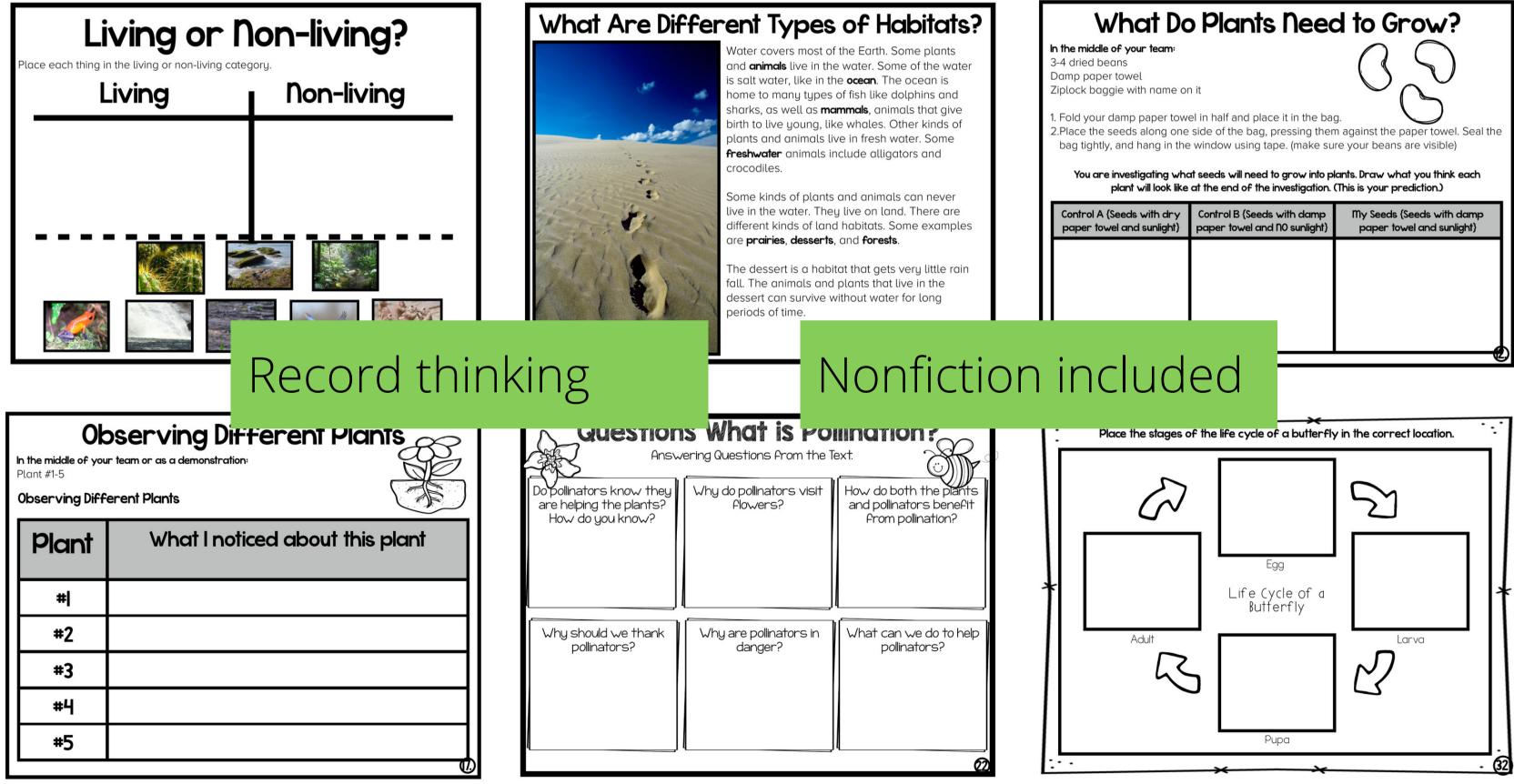
Lesson Contains:

arned

- Essential
- Questions
- 5 E Model
- High Engagement Strategy
- Final Review

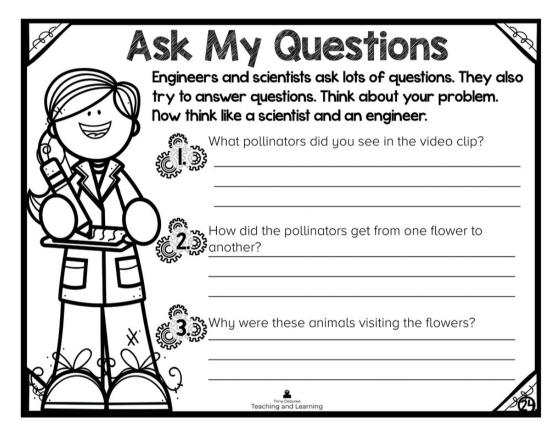
More

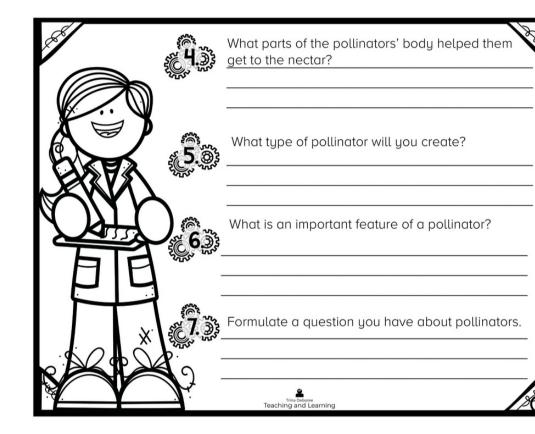
Ickeccoser Look. Student Notebook Sample

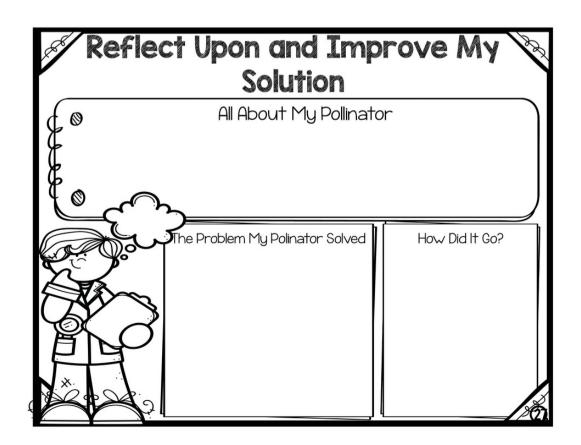


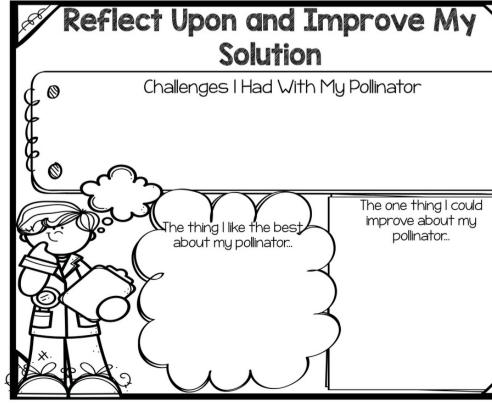
Control A (Seeds with dry paper towel and sunlight)	Control B (Seeds with damp paper towel and NO sunlight)	My Seeds (Seeds with damp paper towel and sunlight)

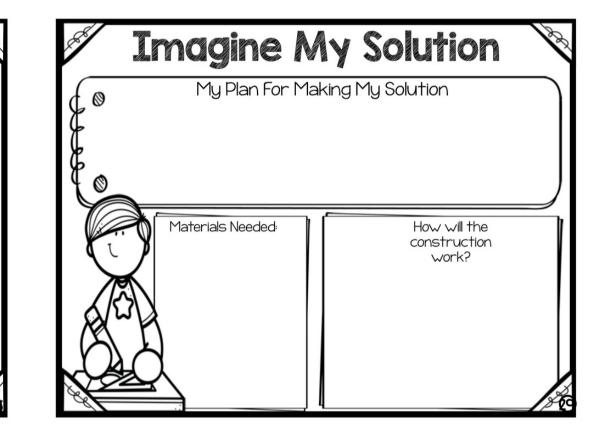
Take a closer Look! 1 STEM Challenges/Makerspace

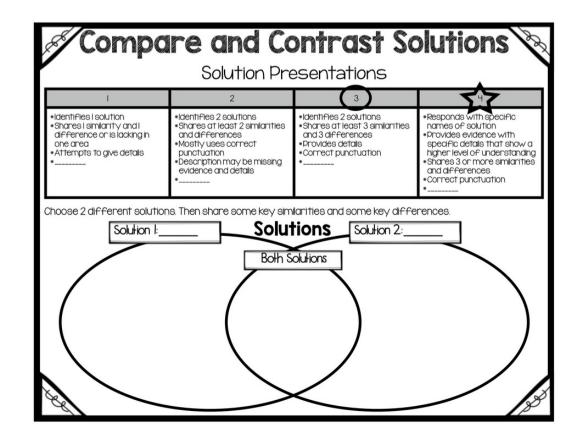












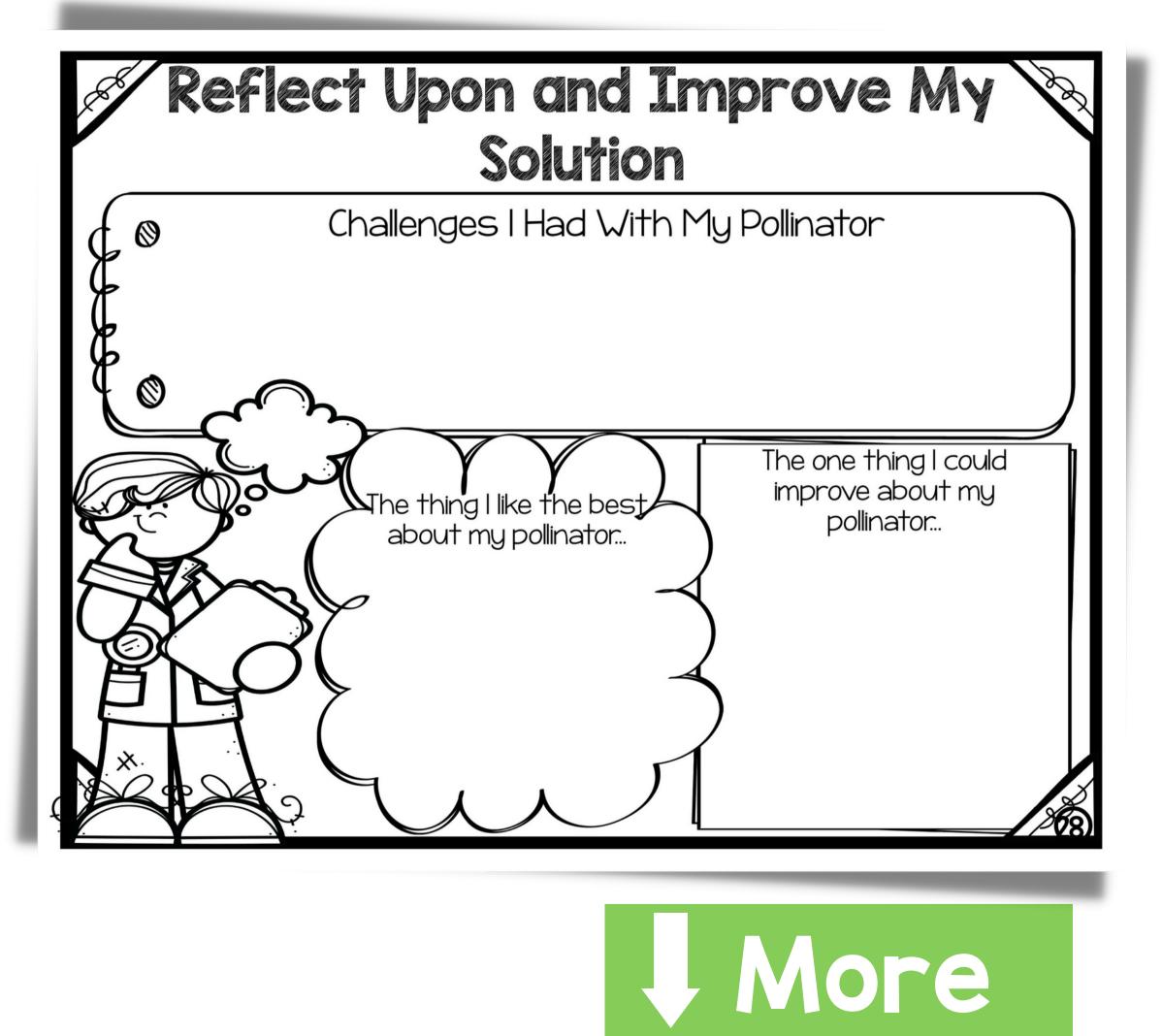
Close-Up Look at STEM Challenge

Problem

Challenge Criteria & Constraints

Think Sheets

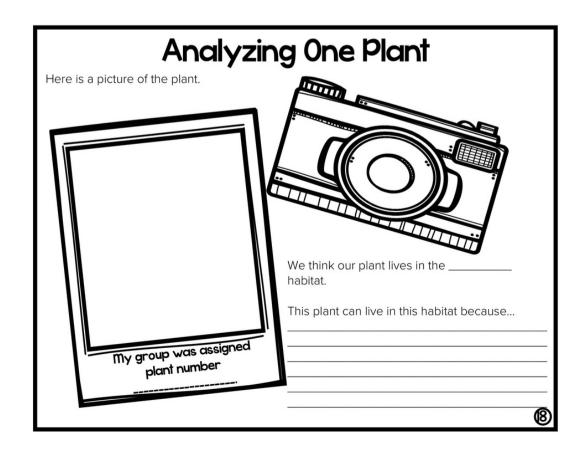
Work Through Engineering Design Process



Take a closer Look! 6 Explorations/Experiments

What Do	Plants Need	d to Grow?
In the middle of your team: 3-4 dried beans Damp paper towel Ziplock baggie with name or	n it	SD
, , , , ,	0.1 0	n against the paper towel. Seal the
You are investigating who		lants. Draw what you think each
You are investigating who	It seeds will need to grow into p	lants. Draw what you think each
You are investigating who plant will look like Control A (Seeds with dry	at seeds will need to grow into p at the end of the investigation. Control B (Seeds with damp	lants. Draw what you think each (This is your prediction.) My Seeds (Seeds with damp
You are investigating who plant will look like Control A (Seeds with dry	at seeds will need to grow into p at the end of the investigation. Control B (Seeds with damp	lants. Draw what you think each (This is your prediction.) My Seeds (Seeds with damp

Observe Your Seeds Daily Record your observations for the next 3-5 days.			
Days	Control A (Seeds with dry paper towel and sunlight)	Control B (Seeds with damp paper towel and N0 sunlight)	My Seeds (Seeds with damp paper towel and sunlight)
Day 2			
Day 3			
Day 4			
Day 5			
What conclusion can you	draw based on your find	dings?	
			B



What We Learned About Where Our Plants Live

As a class, we talked about where each plant can live. Here is what we found.

Plant	Habitats
#	
#2	
#3	
#4	
#5	

Observing Different Plants

In the middle of your team or as a demonstration: Plant #1-5

Observing Different Plants

Plant	What I noticed about this plant
#	
#2	
#3	
#4	
#5	

	1 Flower-What Do You See? a Flower carefully. Draw a picture that shows its shape, colors, patterns, and parts.
Listen to t Characteristic	he characteristics of a Alower, then record the observations for your Alower. Observation
Color	
Pattern	
Shape	
Smell	
center of the flower	lery substance (pollen) in the : Use a Q-tip to smear some of pox below and tape it in place.

Idkedcoser Look Nonfiction with Questions & Readers

Where Do Plants and Animals Live?

Living things need a place to live. A place where plants and animals get what they need to stay alive is a **habitat**. Different plants and animals live in different habitats. Living things have special features that help them survive in their habitats.

They way a plant or animal looks can give you clues about the habitat in which they live. Ocean plants and animals have features that help them survive under water. Desert plants and animals have **features** that help them survive long periods of time without a lot of water.

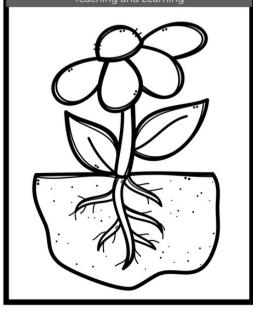
There are different tupes of habitats on Earth. Different animals and plans live in different areas of the world.



Informational text standards covered

How Do Plants Grow?

By Trina Deboree tions by Creative Clip



WIND IS & FIGHT:

A plant is a living thing. It stays in one place. Plants grow and change, just like all living things.

All plants have the same basic needs. Plants need air, water, and sunlight. The sunlight is used for energy.

How Does a Plant Begin?

Plants depend on their habitats to provide resources they need to grow. If plants have what they need, they will develop through a life cycle. Page 1

The life cycle of a plant begins with a seed. Under the right conditions, a seed starts to grow through a process of germination. Germination is where the seed splits open. A shoot then pushes out. A new plant is beginning.



Germination- the seed splits open.

Pade 2

What Are Different Types of Habitats?



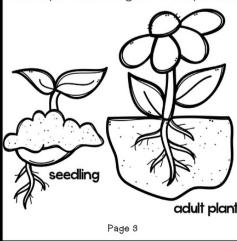
Water covers most of the Earth. Some plants and **animals** live in the water. Some of the water is salt water, like in the **ocean**. The ocean is home to many types of fish like dolphins and sharks, as well as **mammals**, animals that give birth to live young, like whales. Other kinds of plants and animals live in fresh water. Some **freshwater** animals include alligators and crocodiles.

Some kinds of plants and animals can never live in the water. They live on land. There are different kinds of land habitats. Some examples are prairies, desserts, and forests.

The dessert is fall. The anima dessert can su periods of time

and water, it will continue to arow

into a **seedling**. During the seedling process, roots reach down into the soil, and a stem pushes up into the air. The plant continues to grow into an adult plant. The adult plant can reproduce or grow new plants.



What Do Plants and Animals Need to Survive?

A habitat is important. Habitats provide all the necessary **survival** elements for plants and animals to grow and live. These survival elements are air, water, food, and space or **shelter** (the safe place for a living thing).

The habitat has to be the right match for each animal. For example, a shark could not survive on land, and a black bear could not live in the ocean.

Plants and animals have special features, such as a bird's wings. Wings help a bird to fly and to survive.

Questions:

1. What does the word shelter mean?

2 What text evidence supports the idea that

Integrate STEM into your reading block



Investigate Phenomenon: Fruit Plants



Strawberries arow best after the threat of frost is over usually in late spring- March or April. Strawberries arow the best in sunlight with full sun. Strawberries prefer a sand loam soil that is deep and contains a high amount of organic matter.

Many strawberry farms are located in California and Florida with California producing 91% of the strawberry crops. Florida is responsible for the majority of winter crops.

Raspberries grow best from July to September in a dry area. Many raspberry farms are located along the west coast of the United States

Cherries grow best in very moist soil during the month of June. Manu cherries are produced in northern states, like Michigan and Wisconsin.

Brussel sprout plants thrive in cool soil and can be harvested in October. Most farms that produce Brussel sprouts are in the northwestern United States What does this make you wonder?

Close-Up Look at Nonfiction

Where Do Plants and Animals Live?

Living things need a place to live. A place where plants and animals get what they o stay alive is a **habitat**. Different plants and animals live in different habitats. Informational things have special features that help them survive in their habitats.

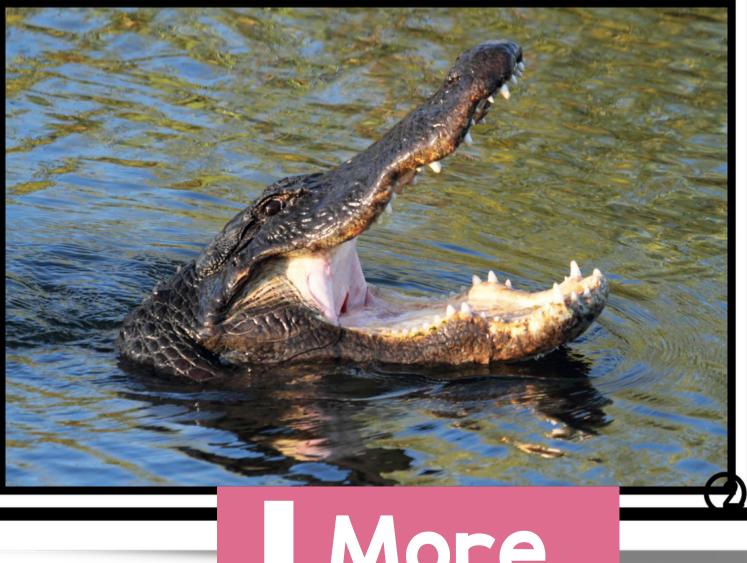
Standards

They way a plant or animal looks can give you clues about the habitat in which Nonfiction Reading ve. Ocean plants and animals have features that help them survive under Desert plants and animals have **features** that help them survive long periods without a lot of water.

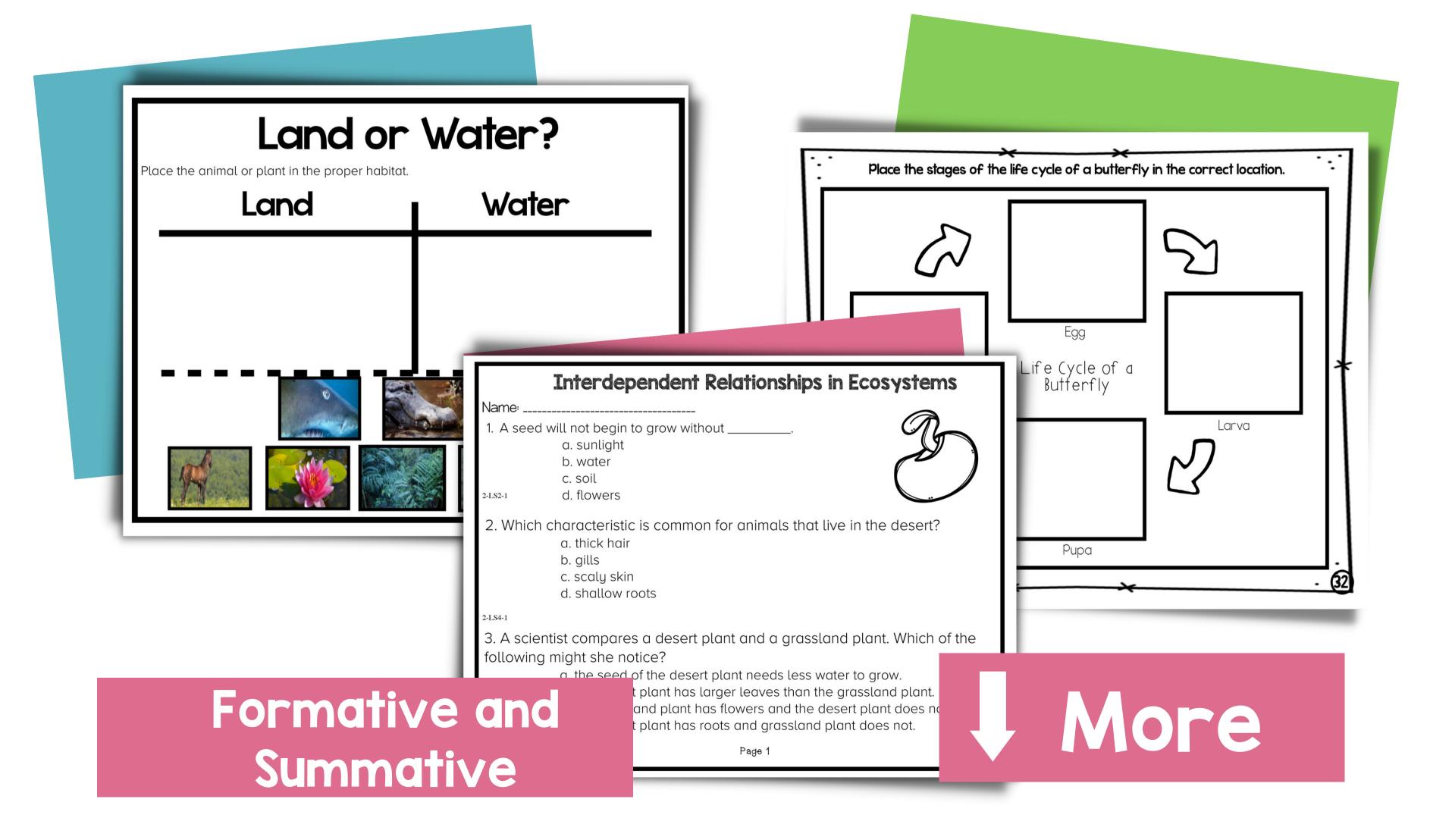
> There are different types of ts on Earth. Different ls and plans live in nt areas of the world.

Student Thinking Required

Questions



Assessments



What Teachers Are Saying ...

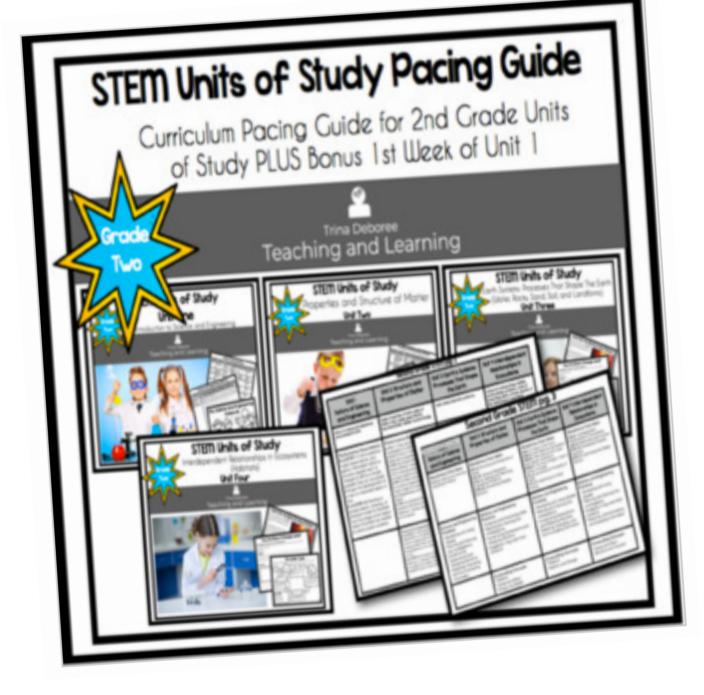
"Wonderful resource! Highly engaging" ~Stacey M.

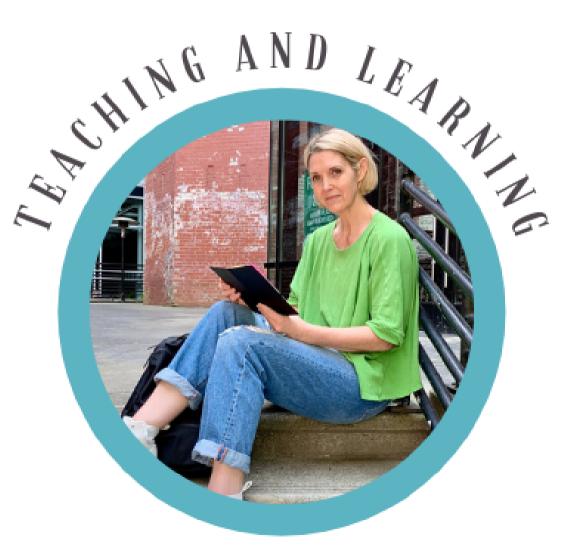




Become a TDTL Listy and Download a STEM Unit Pacing Guide

Click the Image Below to Download.





TRINA DEBOREE