# **Amplify** Science

Wondering About Noises in Trees

Unit Deep Dive

Grade TK/UTK/ETK/TK-Kinder Combos

#### **LAUSD**

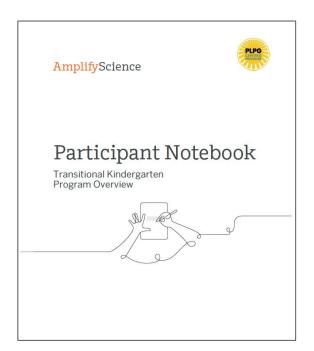
Date: September, 2023

Presented by \_\_\_\_\_

**Amplify Professional Learning Specialist** 



### Participant Notebook



Hardcopy and digital

https://bit.ly/3Piwvs2

## Opening Reflection

What are your goals for student outcomes as a result of attending this professional workshop?

Participant Notebook

#### Reflection

Use the provided spaces as a place for reflection throughout the session.

Session goals and student outcomes

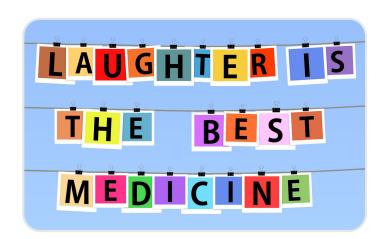
What Connect the workshop goal(s) to an outcome you envision for your students.	Why Reflect on why you want this outcome for your students.	How How will your students achieve the outcome? Reflect on what you learned during the workshop that will impact student outcomes.

### Welcome



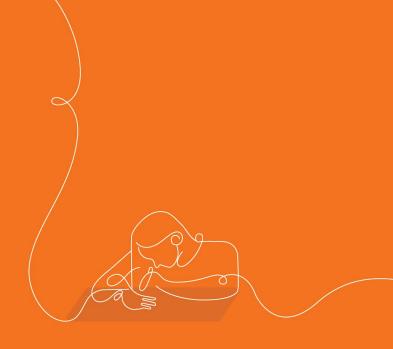
### Make a name tent with cardstock.

- Write your name and school site on the front
- On the back write:
  - Number of years you've been teaching TK or Kinder
  - What is something that has made you laugh this school year?



# LAUSD SUMMER/FALL INSTITUTE 2023

Session 1
Unit 1 Deep Dive





# Plan for the Day



Introduction & Framing the day



Navigation & Planning Explorations



New Curriculum & TK Instructional Approach



Planning to Teach-Additional Program Resources



Internalization & Navigation Unit 1



Closing



## Welcome!

What science materials or equipment can you & your students not live without?

### Intro: JoAnna Chocooj

- 30+ year veteran teacher in SF Bay Area
   = small Urban district in Vallejo, CA
- Grew up in tiny desert town of Trona,
   CA, just south of Death Valley
- FUN FACT: Extended family lived in LA so presenting to my LA area teachers always feels like family!



 I got this wonderful water/sand sensory table for my classroom from Lakeshore - we use in all 3 Amplify Science TK Units!

**Amplify**Science

## Amplify's Purpose Statement



### Norms: Establishing a culture of learners



 Participate actively: Engage at your comfort level - ask questions, discuss, share!



 Take care of yourself: stand up, get water, if you need anything, please let us know!



 Manage your tech; make sure you have a note-catcher present: we're here to help you access all the resources!



 What is learned here, leaves here: let's get ready to teach!!

# Today's Logistics



- Lunch break from <u>11:30 12:30</u>
- UCKL Center X Presentation <u>12:30 2:00</u>
- Unit planning <u>2:00 3:00</u>
- Please be sure to sign in!
- Bathrooms
- Parking lot for questions or concerns



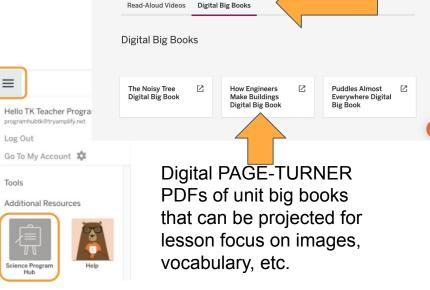
### Amplify Science TK Program Hub Resources

#### **Amplify Science TK Resources**

#### Accessing Digital Books and Read Alouds

- Go to <u>learning.amplify.com</u>
- 2. Click "Log in with Amplify"
  - a. Username: programhubTK@tryamplify.net
  - b. Password: Amplify Number1
- 3. Use the Global Navigation Bar to open the Science Program Hub
- 4. From the Program Hub> Open Additional Unit Resources
- 5. Click on Transitional Kindergarten
- 6. Explore the Read- Aloud videos and Digital Big Books



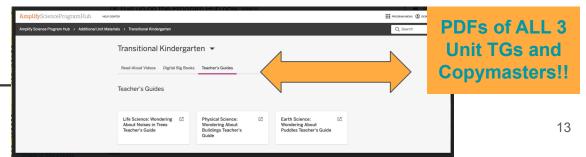


Amplify Science Program Hub > Additional Unit Materials > Transitional Kindergarten

Transitional Kindergarten ▼

(2) TK TEACHER PROGRAM HUB

Q Search



**Amplify**ScienceProgramHub

## Join Amplify Science Schoology Group

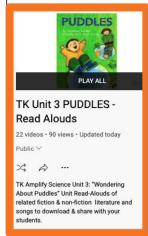
To join Amplify Science Schoology ES Group: W4PK-W466-63F5B

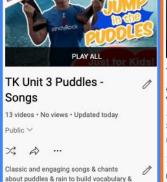
# Collaborative Resources

Through working with real Amplify Science TK teachers, JoAnna, our TK expert, has put together some collaborative resources that connect to each of our TK units!

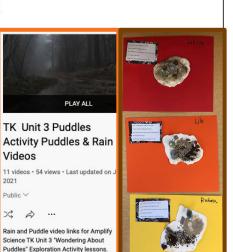
If you find new books, songs or videos to use with the unit, please email suggestions to <a href="mailto:jchocooj@amplify.com">jchocooj@amplify.com</a> so she can add them to our collaborative playlists.

Resource	Description
Read Alouds	Read-Aloud links for Fiction & Non-Fiction related literature to the Wondering about Puddles Unit.
Songs	A playlist of songs that have connections to the themes in Wondering about Puddles.
Puddle Activity Videos Water Activity <u>Video</u>	A playlist of videos involving activities in and around puddles. Video activity that connects to Exploration 1, Activity 4.
Art Project Examples	Ideas for related art projects.





have fun!



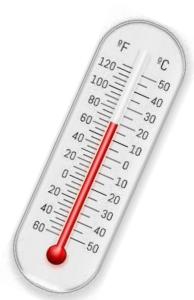


- Have you taught Amplify Science TK?
  - If so, what successes have you had teaching?
  - & what challenge have you faced teaching Amplify Science TK?
- If not, what challenges have you faced teaching science?
- What will be most helpful to you during our time together today?
  - What goals do you have for student outcomes after our workshop time together?

### **Navigation Temperature Check**

Rate yourself on your comfort level accessing Amplify Science TK materials and navigating the lessons.

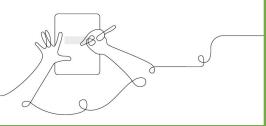
- 1 = Extremely Uncomfortable
- 2 = Uncomfortable
- 3 = Mild
- 4 = Comfortable
- **5 = Extremely Comfortable**



Public - Jan **2023 PN TK, Unit** <u>1.pdf</u>

### Participant Notebook

TK, Wondering About Noises in Trees Unit Internalization



#### **Exploration Note Catcher**

Unit Name:

FOCUS AREAS	Introductory Activity	Exploration #1	Exploration #2	Exploration #3	Culminating Activity
Science Question					
What will students learn? (objectives)					
Key Vocabulary					
Multiple Modalities (Do, Talk, Read, Write, Visualize)					
Assessments and/or Differentiation Opportunities					

**TK Planning Resources Notecatcher** 

**TK Unit Notecatcher** 

Amplify Science TK ACTIVITY Center Notes UNIT: #1 #2 #3 NAME: EXPLORATION: #1 #2 #3		
	bw to structure the Activities in your classroom for each	
	I set up the stations (part of LA or Math, or general Learning	
	ideas for visual arts & music, extension & home opportunities	
Station one:	Station Two:	
Station Three:	Station Four:	

**TK Activities NoteCatcher** 



# Plan for the Day



Introduction & Framing the day



Navigation & Planning Explorations



New Curriculum & TK Instructional Approach



Planning to Teach-Additional Program Resources



Internalization & Navigation Unit 1



Closing





- Navigate the Amplify Science TK curriculum to understand the structure and resources at the Unit, Exploration and Activity levels.
- Experience how all the multimodal activities & instructional routines work together to support students' success.
- Become familiar with planning resources to prepare to teach Amplify Science TK to my students..

TK Scope and Sequence



**Life Science:**Wondering About Noises
in Trees

**Student Role: Biologist** 



**Physical Science:**Wondering About
Buildings

Student Role: Building Engineer



**Earth Science:**Wondering About
Puddles

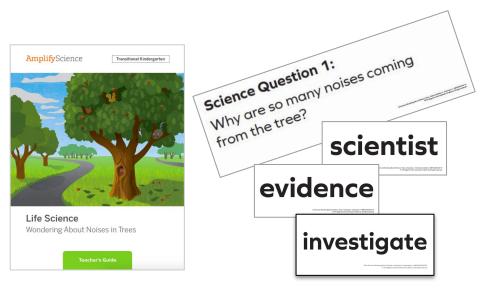
**Student Role: Hydrologist** 

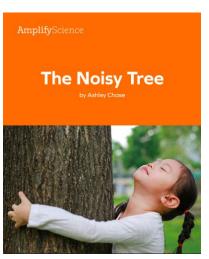
Number of Lessons: 20 lessons per unit

Time: 15 mins per lesson

Instructional Time: 4 - 6 weeks per unit - Flexible Implementation

### **TK Unit Materials**







Teacher's Guide -Paper & PDF Classroom Wall Materials Big Book -Paper & Digital Card Sets Paper &
Projection fy.

### **TK Curriculum Materials**

- Language Frames & Student CopyMasters
- Home Connections Copymasters
- Scientist Cards
- Extension Opportunities
- Playlists of Exploration
   Audio & Video Lesson
   Links; Songs & related
   Literature (refer to district for guidance on use)



Amplify Science
ScientistProfile
Cards



#### Teacher Support

#### Instructional Suggestion

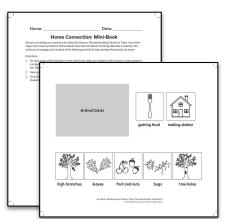
#### Providing More Experience: Class Nature Walk

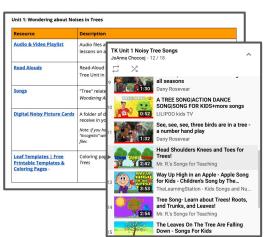
You can extend the Introductory Activity by taking a class nature walk if you have access to a natural or semi-instant air are with three. This are can be a port of the schooly-you a small local park, or a larger protected area. Let students know that they will look and listen to figure out more about what is in on, and around the trees. Quide students on a walk, pussing frequently to model looking and listening closely to the trees. For example, you can say." Took closely to model looking and listening closely to the trees. For example, you can say. "Took closely at this tree, and Is see leaves." Took closely at these leaves, and Is see that they have lines on them." I listen closely to this tree, and I hear chirping." During the class nature walk, invite students to share on observations there make.

#### Instructional Suggestion

#### Providing More Experience: Home Connection

The Introductory Activity includes an optional Homo Connection that introduces families to one of the science practices students will learn in this unit. Homo Connections can encourage interaction and discussion between students and their families around science concepts, which is beneficial for student learning. The Homo Connection Observing Trees invites students and an adult to observe sights and sounds near a tree or several trees. Make one copy of the Homo Connection: Observing Trees copyramize for each student to take home.

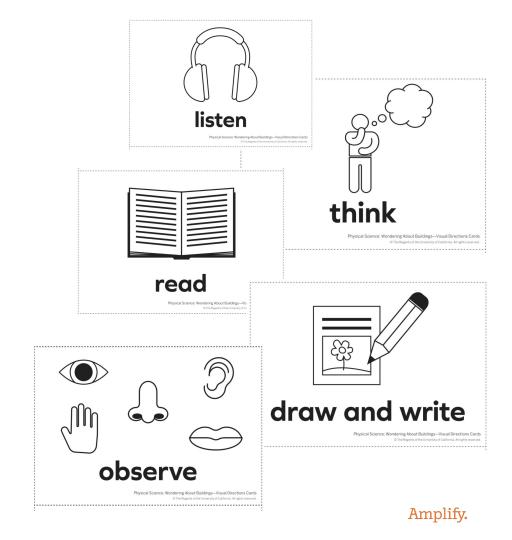




### Flexibility

### **Visual Directions Cards**

- Support independent interaction in centers in all 3 TK Units
- Provided after Activities in Exploration 1
- Suggestions within Exploration level







As you watch this video, listen carefully to how you know Emma is engaged in phenomena based learning?

What words or phrases does she repeat to let you know?

Use the chat feature to share your thoughts.



Follow

My daughter is having awesome conversations with me about what she is learning in science! @AmplifyScience #RiseGI #LincolnShines



**Parent:** "Emma, what are you learning about in Science?"

**Emma:** "All plants need water. Sometimes it rains in the desert. And we're figuring out why does the black one doesn't grow and the pink one and the white one does grow."

Parent: "But you don't..."

**Emma:** "And we ummm we figured out the one who had the ummm caterpillars. We already figured that one out cause no caterpillars were there. OK? The End!"

# Phenomenon-based learning & teaching:

A scientific phenomenon is an **observable event** that occurs in the universe that we can use science ideas to explain or predict.



# Phenomenon-based learning and teaching Next Generation Science Standards & CA PLFFs

A scientific phenomenon is an **observable event** that occurs in the universe that we can use science ideas to explain or predict.

SCIENTIFIC INQUIRY STRAND	CA NGSS SCIENCE & ENGINEERING PRACTICES	
At around 48 months of age	At around 60 months of age	
1.2 Observe objects and events in the environment and describe them.	1.2 Observe objects and events in the environment and describe them in greater detail.	
	SEP-8 Obtaining, evaluating, and communicating information  Describe how specific images (e.g., a diagram showing how a machine works) support a scientific or engineering idea.  Use information from observations to construct an evidence-based account.  Communicate information in oral form using models and drawings that provide detail.	

# Topic-based vs. Phenomenon-based

## What's the difference?

Topic-based	Phenomenon-based
Animals in trees	Why are there noises coming from the tree in the park?
All about buildings	How can we make a play city with stable buildings?
Rocks and water	Why are there puddles in some places on the ground, but not in other places?

We are biomimicry engineers.

I'm a pinball engineer.

I'm a weather scientist.

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We are aquarium scientists.

I'm a light and sound engineer.

We are ecologists.

I'm a meteorologist.





I'm a sky scientist.



We are systems engineers.















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We are geologists.



**DRAMATIC PLAY** will never be the same. We are now officially: **TK Scientists!** 

I'm a conservation biologist.



We are m scientists.





good scientist.

I'm an astronomer.



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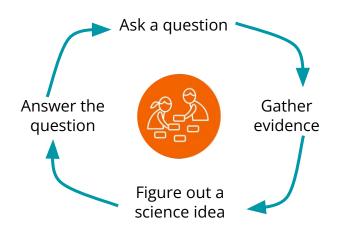




# Amplify Science TK Instructional Approach



Find out about a Mystery, a Phenomenon NGSS focus



Gather evidence to figure out science ideas California PLFF's & NGSS 3D Learning



Explain the Mystery, the Phenomenon California PLFF Application to NGSS!

### Phenomena-based Instruction

**Inquire** like a scientist.

Think like a scientist.

**Quantify** like a scientist.

Read like a scientist.

Talk like a scientist.

**Draw** like a scientist.

Write like a scientist.

**Critique** like a scientist.

**Argue** like a scientist.

Figuring out phenomena like a scientist.

# Figure out, not learn about...

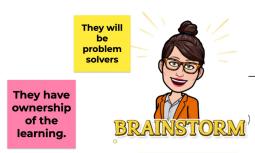
How might the role of a student change when they engage in figuring it out instead of learning about?

it would be ongoing and no definite answer would be right away

> It would become personal for them!

Students will take ownership of learning

They will become more engaged



They become little scientists! :)

Students be the ones that are in charge of their own learning.



# Plan for the Day



Introduction & Framing the day



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Internalization & Navigation Unit 1

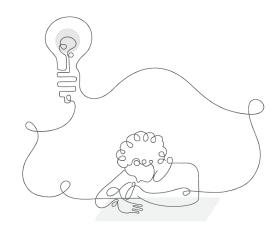


Closing

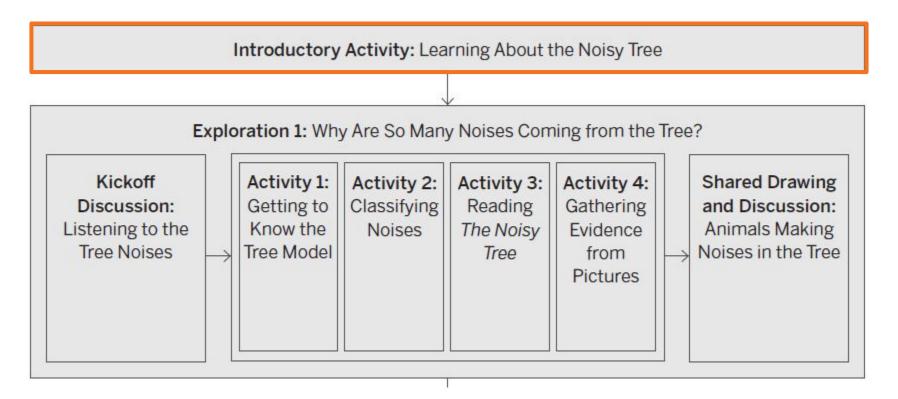
# Previewing the unit Introducing the phenomenon

Amplify Science units are designed around complex phenomena that drive student learning through the unit.

Let's look at the phenomenon, or observable event, students will figure out in your unit.



# **Unit Experience**



### Introductory Activity:

### **Learning About the Noisy Tree**

The teacher reads aloud the first few pages of *The Noisy Tree*, which begins the story of a young girl who works like a scientist as she observes a tree in the park. Students are introduced to their role as scientists. They also share their initial ideas about what could be making the noises in the tree. The purpose of this Introductory Activity is to introduce students to the unit phenomenon and to their role as scientists in order to motivate their learning throughout the unit.





I wonder why this beetle is on this flower. I want to figure it out. My mom says scientists try to find **evidence**. They look and listen to figure things out.

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### The Noisy Tree

by Ashley Chase



- Phenomenon: noises coming from trees
- Mystery students solve: what causes these noises and why.
- Role: scientists
- Vocabulary: scientist, observe, evidence
   ( TG: Introductory Activity Page 16-20)

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Lesson 1.1: Pre-Unit Assessment Activity 1

### Vocabulary

## scientist

someone who uses their 5 senses to figure things out about the natural world

### Share what you think might be making the noises in the tree.

### **Shared Listening**



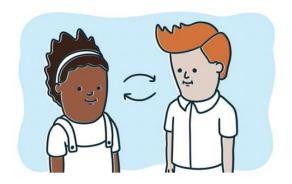
1,

Partner A shares.
Partner B listens.



2

**Partner B** repeats. *I heard you say...* 



3

Partners switch.

# **Amplify Science Anchoring phenomenon**

- Complex and rich
- Drives learning through a whole unit
- Specific and observable
- Relatable at students' developmental level



# Wondering About Noises in Trees

**Problem:** What is making all those noises in the tree(s)?

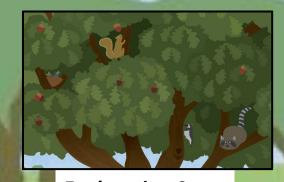
Role: Biologists (animal & plant scientists)

What: Students take on the role of biologists helping answer young girl's questions about what can be making all the noises coming from a tree. They figure out that the noises can be made by animals, & then investigate what they're doing that's so noisy, & why trees are such great places for them.

# Coherent storylines



Exploration 1: What is making all the noises we hear in the tree?



Exploration 2: What are the animals doing in the tree to make so much noise?



Exploration 3: Why are trees such great places for animals to make shelter & get food?

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# **Unit Structure and Timing**



Entire Unit 300 minutes (5 hours) **Introductory Activity** (15 minutes)

**Exploration 1** (90 minutes)

**Exploration 2** (90 minutes)

**Exploration 3** (90 minutes)

**Culminating Activity** (15 minutes)

#### **Science Question 1:**

Why are so many noises coming from the tree?

#### **Science Question 2:**

What are the animals doing in the tree that makes so much noise?

### **Science Question 3:**

Why is the tree a good placegs for the animals to get food and make shelter?

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# **Exploration Timing**

Kickoff
Discussion
(15 minutes)

**Activity 1** (15 minutes)

Activity 2 (15 minutes)

Activity 3 (15 minutes)

**Activity 4** (15 minutes)

Shared Drawing and Discussion (15 minutes)

**Introductory Activity** (15 minutes)

**Exploration 1** (90 minutes)

**Exploration 2** (90 minutes)

**Exploration 3** (90 minutes)

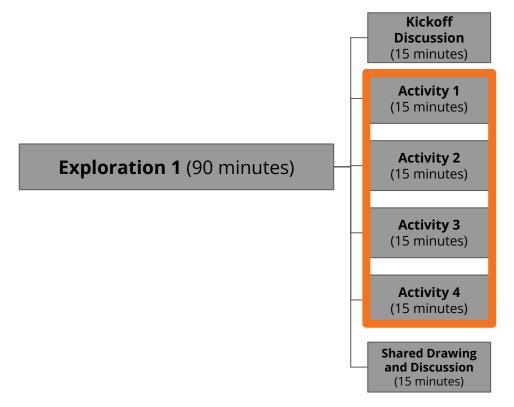
**Culminating Activity** (15 minutes)

Entire Unit 300 minutes (5 hours)

# Explorations can be taught flexibly

# The **four Activities** in an Exploration can:

- be taught full-group, small-group, or in centers
- be taught in any order
- be supplemented by additional instruction



### **Guided Unit Internalization Planner**

Part 1: Unit-level internalization

Unit title:

Wondering About Noises in Trees

What is the phenomenon students are investigating in your unit?

There are many noises coming from the tree.

#### Exploration Questions:

- 1. Why are so many noises coming from the tree?
  2. What are the animals doing in the tree that make so much noise?
- 3. Why is the tree a good place for the animals to get food and make shelter?

Student challenge:

What's causing the noises and why?

What science ideas do students need to figure out in order to explain the phenomenon?

Students figure out that animals can make noises in trees when they get food and make shelter for themselves and their babies. Students discover that trees have things animals need, including food, building materials, and places for shelter.

What evidence sources do students enage with across the unit?

the unit big book, pictures and illustrations, models, sound recordings, and videos, & most importantly, observing REAL TREES!

Page 41



### Exploration Note Catcher: unit #1 #2 #3 NAME: Wondering About Noises in Trees

Flexible Implementation Structure:

FOCUS AREAS	Introductory Activity	Exploration #1	Exploration #2	Exploration #3	Culminating Activity
Science Question	What is making the sounds coming from the tree that the little girl in the story is hearing?	Why are there so many noises coming from the tree?	What are the animals doing in the tree that makes so much noise?	Why is the tree a good place for the animals to get food & shelter?	Classbook with individual student pages Self-reflection & Partner discussion Class & student/family tree projects
What will students learn? (objectives)	Scientists wonder about things & try to figure out more about them. Scientists use their senses to figure things out.	The noises are made by animals that are in the tree, or using the tree for some reason.	Animals make noises when they are making a shelter or home for themselves or their babies, or getting food for themselves or their babies.	Different kinds of trees have lots of different kinds of parts that are good for both food & shelter for different kinds of animals.	Scientists share (collaborate) & help each other learn.
Key Vocabulary	Scientist Observe				
Multiple Modalities (Do, Talk, Read, Write, Visualize)					
Assessments and/or Differentiation Opportunities					
Other Noticings					

### PN Page 43



### TK NoteCatcher



# Plan for the Day



Introduction & Framing the day



Navigation & Planning Exploration 1



New Curriculum & TK Instructional Approach



Planning to Teach-Additional Program Resources



Internalization & Navigation Unit 1

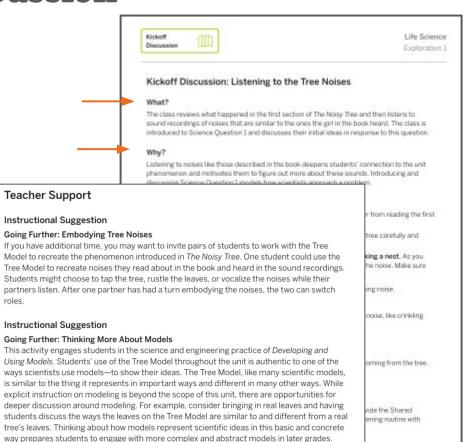


Closing

# **Exploration Kickoff Discussion**

### **Instructional Guide**;

- 1. What
- 2. Why?
- 3. How? Step- by- step
- 4. Teacher Support



### **Exploration One: Kickoff Discussion**

Science Question #1: Why are so many noises coming from the tree?

### **Activities:**

- Revisit The Noisy Tree
- Listening to noises
- Shared Listening Routine
  - What ideas do you have about what is making the noises in the tree?



I hear a tap-tap-tapping noise from high in the tree. I hear crunchy noises, like crinkling paper.

I wonder why those noises are coming from the tree. What's going on up there?

# **Exploration 1**

**Kickoff Discussion** 

Let's listen to some sounds!



### Sound #1: Tap-Tap-Tapping

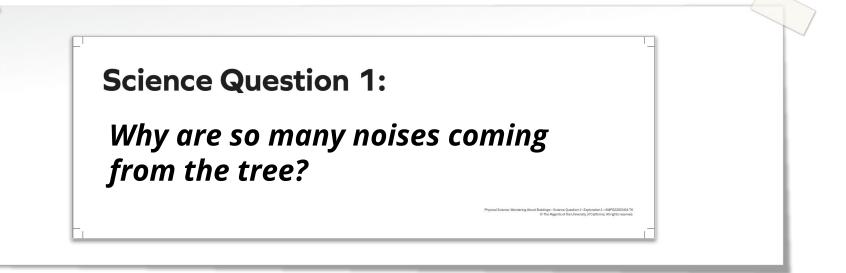


### Sound #2: Crunching noise



Lesson 1.1: Pre-Unit Assessment

Activity 1



### **Shared Listening**



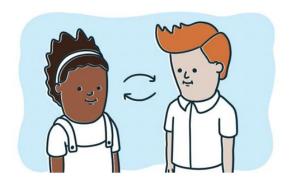
1,

Partner A shares.
Partner B listens.



2

**Partner B** repeats. *I heard you say...* 



3.

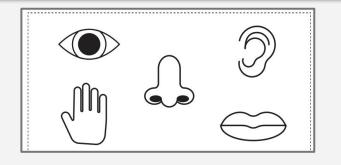
Partners switch.

### Wondering About Noisy Trees Classroom Wall

### **Wondering about Noisy Trees**

### **Science Question 1:**

Why are there so many noises coming from the tree?





observe

Vocabulary

scientist

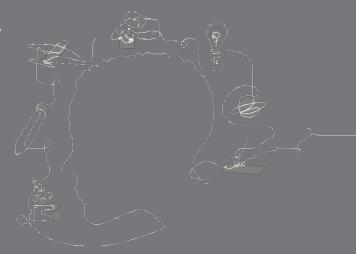


evidence

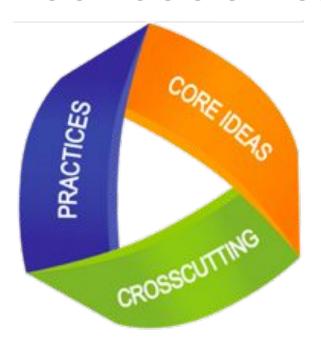


### Let's Chat...

What prior knowledge might our students have or not have that will help or hinder them in forming conclusions about the noises they hear?



# Amplify Science TK Provides a Foundation to the NGSS:

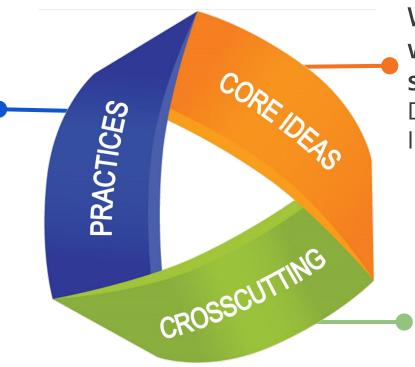


- Phenomenon-based Learning
- 3-dimensional
- Conceptual connections to K-5 NGSS & alignment with TK CA Preschool Foundations & Frameworks

# Figuring out Phenomena

Using 3-D teaching and learning

What scientists & students do to figure out the science.
Science and Engineering Practices



What scientists
want to know &
students figure out
Disciplinary Core
Ideas

We students learning the habits that help them organize information

Crosscutting Concepts

## **Amplify Science TK Units**

### **Precursors & Linkages & between NGSS & PLFFs**



### DCI's

(Science Topics)

- Life Science
- Physical Science
- Earth & Space Science

## SEP's

(Best Practices)

# (from Scientific Inquiry Topic) How we Figure things out!

- Wondering
- Comparing and Looking for Patterns
- Describing what happened
- Collecting Evidence
- Talking, drawing & writing about what we know, read and learn about new discoveries

# CCC'S (Science Topics)

### (from Scientific Inquiry Topic)

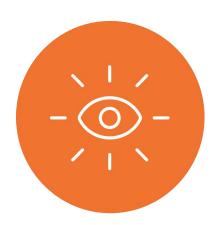
Cause & Effect

(from MATH Topics)

- Patterns
- Classification

# **Amplify Science Instructional Approach**

**Transitional Kindergarten** 



Introduce a

phenomenon and

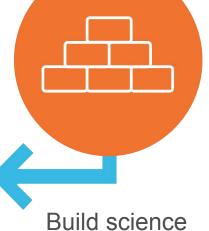
mystery problem:

What is making all

that noise in the tree?



Gather **evidenc**e from multiple sources



Build science explanations using evidence



Work together as scientists to share ideas in a culminating activity:

What have we learned about noisy trees?

### **Multimodal Instruction**



Figuring out and making sense of ideas like scientists & engineers!

- Do
- Talk
- Read
- Draw & Write
- Visualize

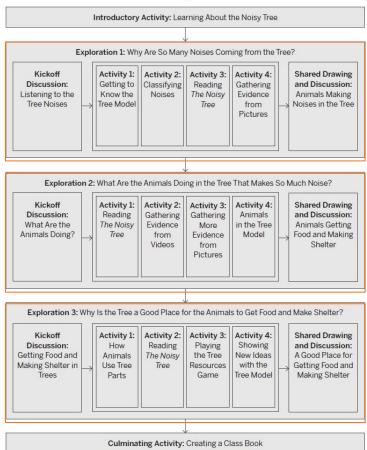


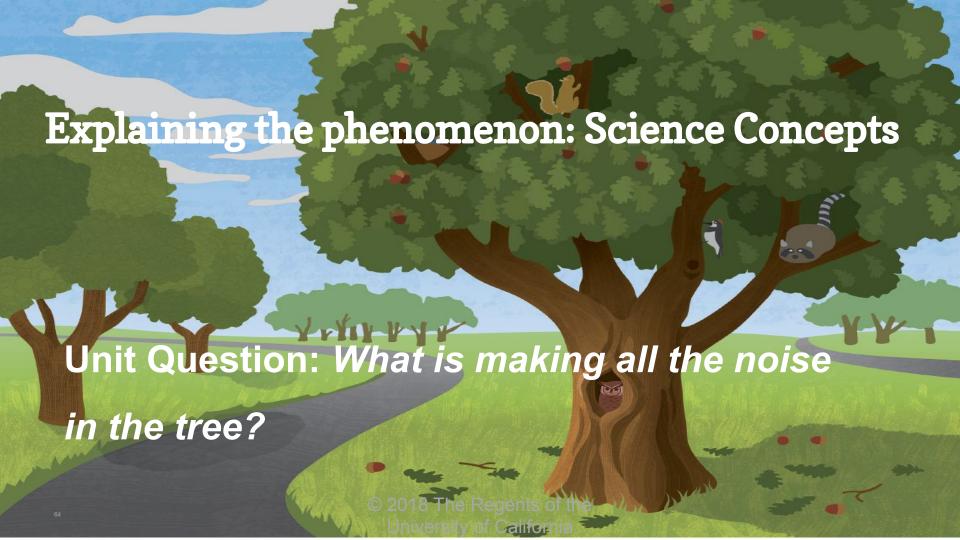
### **Wondering about Noises in Trees**

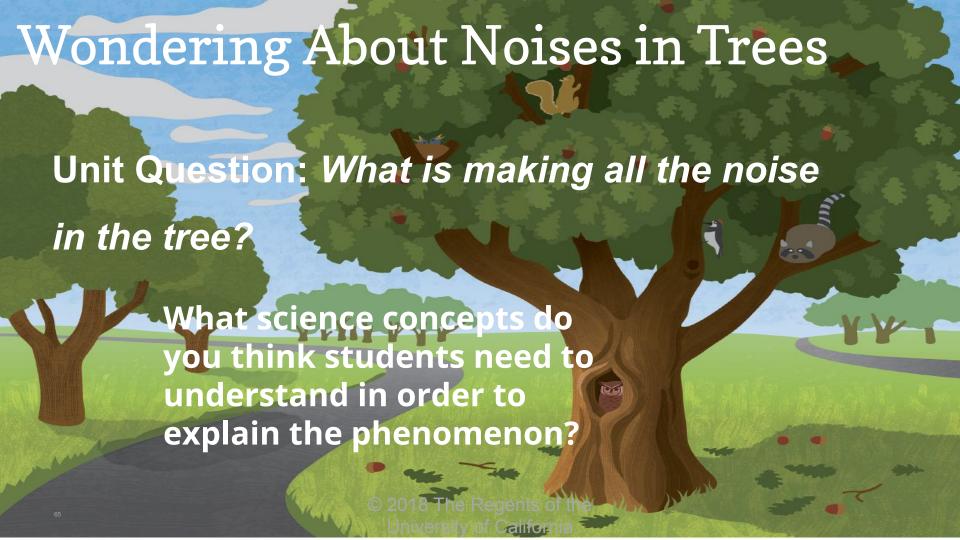
Analyze the unit structure document. Looking at the Title of each Exploration...

- What do you anticipate students will know and be able to do at the end of each Exploration?
- How do the Exploration Activities support this learning?

### Life Science: Wondering About Noises in Trees

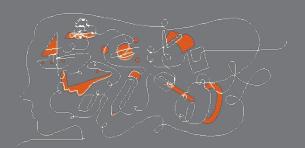






# Progress Build

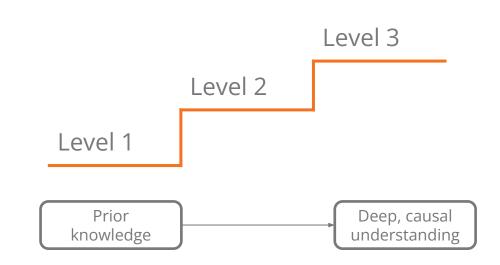
A Progress Build describes the way in which students' explanations of the central phenomenon should develop and deepen over the course of a unit. It is an important tool in understanding the design of the unit and in supporting students' learning. A Progress Build organizes the sequence of instruction and defines the focus of the assessments.



# Unpacking the Progress Build

Understanding a unit's
Progress Build will help you
guide your students, address
misconceptions, and avoid
giving ideas away too early in
the unit.

In this activity, we'll look at the Progress Build for Unit 1.



## Progression of Wondering About Noises in Trees

### Level 1

Trees often have lots of animals in them. Animals make noises. Trees have trunks, branches and leaves.

### Level 2

Animals in trees can make noises when they get food and make shelter for themselves or their babies.

Different animals eat different kinds of food and make different kinds of shelter.

### Level 3

Trees are good places for animals to get food and make shelter because trees have things that animals need. Different animals use different parts of trees to get food and make shelter.

**Prior knowledge (preconceptions):** Students may or may not know that plants and animals are living things. They might know that other elements can be noisy, like the wind - but they may or may not know that wind & other weather-related noisy elements are not living things.

# Progression of Wondering About Noises in Trees

Deep, causal understanding Prior knowledge

Trees are good places for animals to get food and make shelter because trees have things that animals need. Different animals use different parts of trees to get food and make shelter.

Animals in trees can make noises when they get food and make shelter for themselves or their babies. Different animals eat different kinds of food and make different kinds of shelter.

Trees often have lots of animals in tree. Animals make noises. Trees have trunks, branches and leaves.



### **Navigating the Unit:**

### **Science Question 1:**

Why are so many noises coming from the tree?

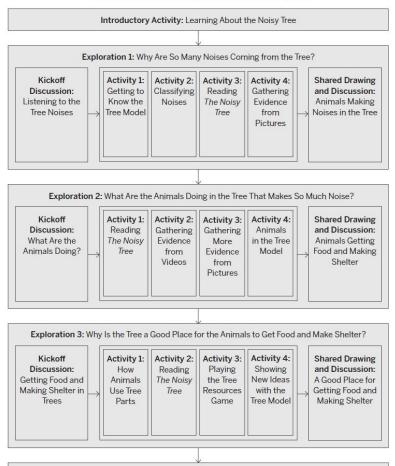
### **Science Question 2:**

What are the animals doing in the tree that makes so much noise?

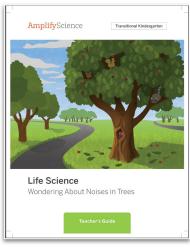
### **Science Question 3:**

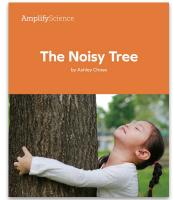
Why is the tree a good place for the animals to get food and make shelter?

#### Life Science: Wondering About Noises in Trees



Culminating Activity: Creating a Class Book





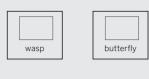
### Language Frames Build

#### Language Frame 1

On one or two sentence strips, write the language frame s frame in a pocket chart or attach it to a whiteboard with n pocket chart beneath the language frame. Make sure the are not revealed to students until you discuss them in Act

There is a \_\_\_\_\_ in the tree.







#### Language Frame 2

On one or two sentence strips, write the language frame shown below. Place the frame in a pocket chart or attach it to a whiteboard with magnets. Place the card pocket chart beneath the language frame. Make sure the cards are turned over s are not revealed to students until you discuss them in Activity 2.

The \_\_\_\_ makes a \_\_\_ noise when it is \_







 L	
	r
·	



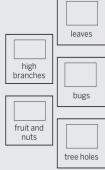
#### Language Frame 3

On one or two sentence strips, write the language frame shown below. Place the language frame in a pocket chart or attach it to a whiteboard with magnets. Place the cards in the pocket chart beneath the language frame. Make sure the cards are turned over so they are not revealed to students until you discuss them in Activity 3.

The	is	in the	tree	because	the	tree	has	

n	raccoon	robin	
18	owl	squirrel	getting food
	honevbee	caterpillar	making shelter

woodpecker



# **Exploration Level - Activities**

### **Overview:**

- Lesson Brief
- Students Learn
- Activities at a Glance
- Vocabulary

### Exploration 1 Overview

In this Exploration, students investigate Science Question 1: Why are so many noises coming from the tree? Exploration 1 begins with the Kickoff Discussion in which students listen to sound recordings of noises like those from the tree and share their initial ideas in response to Science Question 1. Four activities help students gather evidence about

### Introductory Activity Overview

This Introductory Activity introduces students to the LIfe Science: Wondering About Noises in Trees unit and sets the stage for the Explorations to follow. The teacher reads aloud the first few pages of The Noisy Tree, which begins the story of a young girl who works like a scientist as she observes nature in the park. She hears mysterious noises from a tree and wonders what is going on. During the Read-Aloud, students are introduced to their role as scientists. After reading, students share their initial ideas about what could be making the noises in the tree. The purpose of this Introductory Activity is to introduce students to the unit phenomenon and to their role as scientists in order to motivate their learning throughout the unit.

#### Students learn

- · Scientists wonder about things and try to figure out more about them.
- · Scientists use their senses to figure things out.

#### Vocabulary

scientist

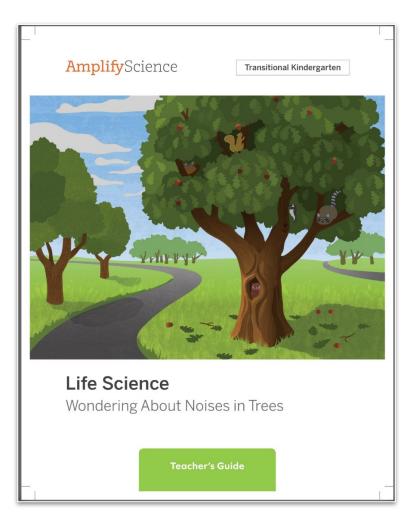
udents are introduced ity 2, students listen to ree of each sound. In ree. In Activity 4, students escribe their observations. Alich the class summarizes 1 is for students to use ess often have a lot of

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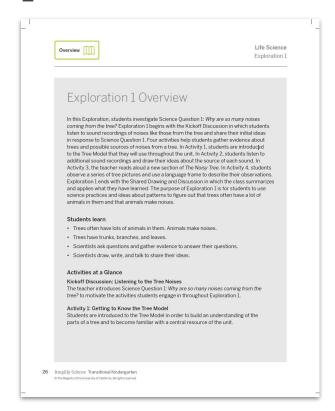
auestions.

pises coming from the exploration 1.

inderstanding of the fithe unit.



## **Exploration 1 Overview**



### **PN Page 5**



#### Part 2: Exploration-level internalization

Exploration 1
Question:

Why are so many noises coming from the tree?

#### What do students learn in Exploration 1?

- Trees often have lots of animals in them. Animals make noises. Trees have trunks, branches, and leaves.
- Scientists ask questions and gather evidence to answer their questions.
   Scientists draw, write, and talk to share their ideas.

#### What is the purpose of Exploration 1?

The purpose of Exploration 1 is for students to use science practices and ideas about patterns to figure out that trees often have a lot of animals in them and that animals make noises.

# Summary of Exploration 1

### PN Pages 5-6

#### Activity 1: Getting to Know the Tree Model

Students are introduced to the Tree Model in order to build an understanding of the parts of a tree and to become familiar with a central resource of the unit.

#### **Activity 2: Classifying Noises**

Students listen to a series of sound recordings and make drawings of their ideas about the source of each noise. This activity supports students' preliminary understanding that many noises are made by animals.

# TK NoisyTree Unit Audio & Video Links

#### Activity 3: Reading The Noisy Tree

The teacher leads a Read-Aloud of a new section of *The Noisy Tree* to introduce students to animals in the tree. This section of the book helps students understand how scientists make observations to gather evidence to help answer their questions.

#### **Activity 4: Gathering Evidence from Pictures**

Students describe what they observe in trees on the Tree Cards in order to gather evidence that many kinds of animals can be found in trees. Students use a language frame to practice sharing ideas like scientists do.

# **TK Unit 1 Noisy Tree Picture Cards ZIP File**

#### Shared Drawing and Discussion: Animals Making Noises in the Tree

The class participates in a shared drawing and an accompanying discussion to consolidate and apply their understanding of Science Idea 1: *Trees often have lots of animals in them. Animals make noises*.

# **Exploration One: Activity Centers**

### How would you introduce & scaffold these activities in your classroom?

### **Activity One:**

Observe the tree model and think about how the students would make the different types of leaves and add them to the model. Discuss how the model is similar and different to a real tree.

### **Activity Two:**

Listen to different noises and make drawings of ideas about what made each noise. Look for patterns in the data you've recorded

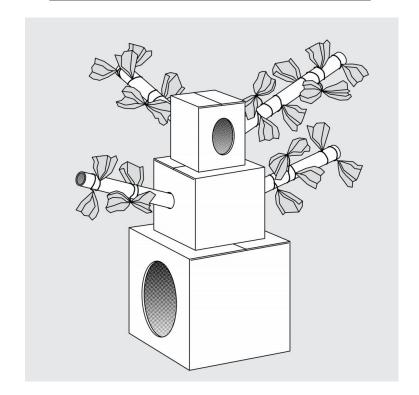
### **Activity Three:**

Read the next section of The Noisy Tree in which the girl makes new observations of the tree in the park.

### **Activity Four:**

Observe pictures of trees and notice there are animals in many of the trees. Use the language frame to describe your observations.

# **Activity One:** Tree Model









Activity Two: Listening to Recordings of Noises

# **Activity Three:** The Noisy Tree

# The Noisy Tree

by Ashley Chase





**Activity Four:** Tree Cards

### **Instructional Routines & Approach**

Instructional Elements & Routines repeat throughout each unit to support students & teachers.

Language Frames Discussion Routines

Looking at the same thing multiple times to get different information

Visual Direction Cards

Creating Physical Models to share ideas & to make connections

**Vocabulary Routines** 

Reenacting/creative play to make kinesthetic, visual & auditory connections (songs, chants, visual arts)

**Science Question Routines** 

**Synthesizing information** 

Setting a Purpose for Activities
Routines

Focal pages in book (setting a purpose) - Reading an Informational Text Routines

Shared-Listening & Discussion Routines

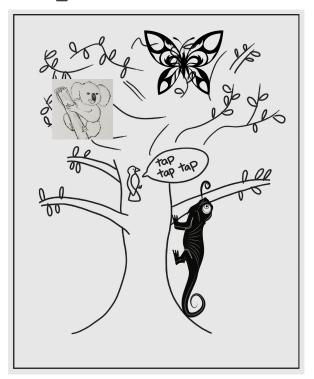
**Shared Writing & Drawing Routines** 

# Unit 1 Shared Drawing & Writing Build - Exploration 1

**Science Question 1:** Why are so many noises coming from the tree?



There is a woodpecker in the tree.
There is a koala in the tree.
There is a gecko in the tree.
There is a butterfly in the tree.



### **Science Idea 1**:

Trees often have lots of animals in them. Animals make noises.

## Let's Chat...

How can you integrate & personalize the Instructional Routines in the Units to your own classroom layout & organizational structure?





### **Example TK Science Wall**

This fabulous science wall is from the 1st TK Science Unit, Life Science focus, "Wondering Noises in Trees" Implemented by Amplify Pilot TK Teacher Julie B.

Instructional Routines: <u>Vocabulary Words</u> & <u>Science ?s</u>
Julie began her back-to-school theme with the traditional TK/Kinder theme "*All About Me*"
Julie included her "<u>My 5 Senses</u>" science unit as part of "*All About Me*" theme.

She introduced Amplify Science **TK Vocabulary Routine** as part of "*My 5 Senses*"

Students began with learning vocabulary words **Senses** & the names for their 5 senses, & the word **OBSERVE**.

When she started TK *Noises in Trees*, students had already practiced the **Vocabulary Routine** with these words multiple times & were ready to begin with the vocabulary words **SCIENTIST** and **COMPARE**, **Science Question #1 Routine**, & discussion of similarities & differences between Real & **model** trees..**Amplify Science ScientistProfile Cards** 



**PUPPETS: "Groot" Tree Puppet for** example of related Tree **Model Activities. Animal Puppets Beanie Babies, & Tiny Stuffed Animals** to start adding to Model Tree in **Exploration 2 Activities**.

### **CLASSROOM ARRANGEMENTS**

## **How can you expand Dramatic Play to:**



**Science Center:** Add class tree & puppets or stuffed animals... Water/Sand **Table Area:** Fill Sensory Table/Tuff **Trays with** "Tree" realia for Free **Exploration!** 

related books for students to read together. Art Area:

**Pictures of** trees & animals to inspire students...

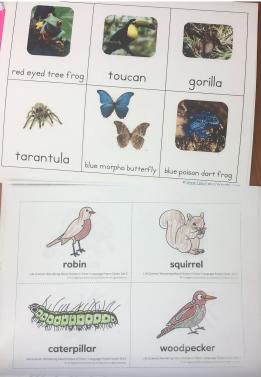
Integrate Thematic Literature with Noisy Tree Unit - Fiction, Non-Fiction, Songs, Chants & Poems to build students' background knowledge

TK Noisy Tree Read-Alouds - new related read aloud YouTube playlist: fiction, non-fiction, chants, socioemotional, "tree" related Read-Alouds in Eng. & Span..



**Books** are available on the Noisy Tree Unit 1 Playlist on YouTube. For extra Classroom **Teacher** ReadAlouds Listening Center Rereading @ home - share in Seesaw or DoJo...

Sample Language Frame & Sorting Cards



Language Frame cards can be used for whole class modeling of Activity on pocket chart, for partner or small group language frame practice @ ELA/language arts center time, or for math sorting practice (kinds of animals in trees, by what the animals are doing in the trees, etc.)

Sample Connected Read Alouds, Realia & Sensory Tube



Extension Activities for Math Learning Centers &/or Free Choice Time Centers:

- Cut up branches & have students lightly sand pieces during "My 5 Senses" Touch. Then in Noisy Tree, use Tree Branch Pieces:
- Sorting by size, height, shape, colors.
- Ordering: by size, by height.
- Patterning: ABAB BIG little BIG little
- **Touch-Counting practice**

Lincoln Logs Construction
Activities - include cards with
sample model homes &
buildings for more MODELING
examples.



Extension Activities for Math Learning Centers &/or Free Choice Time Fine-Motor Centers:

- **Sorting Acorns**
- Sorting Pinecones
- Sorting Tree related
   "stuff" (also put in
   sensory table/Tuff tray
   as Exploration Bin)
- Lacing Wooden
  Beads &/or Buttons
- Calming Containers
  w/Tree realia
- Related Books for Read Alouds &/or "Reading Time"
- Notecards for visualizations, mathsorting activities, & Drawing/Writing Center.



# Extension Activities for ART activities &/or Free Choice Time Fine-Motor Centers:

- Hand and arm print "fall trees" with watercolors.
- Or use tissue paper fall color shapes to make collages.
- Leaf collages to make animals who live in trees., or Leaf People.
  - Chicka Chicka
    Boom Palm Torn
    Paper Art Trees Match stickers of
    name letters to
    name tags if
    students can't write
    them.



# **Extension Opportunity**

#### **Teacher Support**

**Sesame Street: Nature Walk** 

#### Instructional Suggestion

#### **Providing More Experience: Class Nature Walk**

You can extend the Introductory Activity by taking a class nature walk if you have access to a natural or semi-natural area with trees. This area can be a part of the schoolyard, a small local park, or a larger protected area. Let students know that they will look and listen to figure out more about what is in, on, and around the trees. Guide students on a walk, pausing frequently to model looking and listening closely to the trees. For example, you can say, "I look closely at this tree, and I see leaves." "I look closely at these leaves, and I see that they have lines on them." "I listen closely to this tree, and I hear chirping." During the class nature walk, invite students to share any observations they make.

#### Instructional Suggestion

#### **Providing More Experience: Home Connection**

The Introductory Activity includes an optional Home Connection that introduces families to one of the science practices students will learn in this unit. Home Connections can encourage interaction and discussion between students and their families around science concepts, which is beneficial for student learning. The Home Connection: Observing Trees invites students and an adult to observe sights and sounds near a tree or several trees. Make one copy of the Home Connection: Observing Trees copymaster for each student to take home.



- Realia: Have students collect different kinds of leaves during tree observations & leaf walks. Sand Table for explorations? &/Or individual shoeboxes?
- Math Center: Observe
   & Sort leaves
   w/magnifying lenses
- Art Center: Have students make leaf rubbings of collected leaves. - Start w/just 1 color rubbings (have students sort old crayons by color, leaf activity next day).

# **Exploration One: Activity Stations**

How would you introduce & scaffold these activities in your classroom?

Amplify Science TK ACTIVITY Center Notes

#### **Activity One:**

Observe the tree model and think about how the students would make the different types of leaves and add them to the model. Discuss how the model is similar and different to a real tree.

### **Activity Two:**

Listen to different noises and make drawings of ideas about what made each noise. Look for patterns in the data you've recorded.

### **Activity Three:**

Read the next section of The Noisy Tree in which the girl makes new observations of the tree in the park.

### **Activity Four:**

Observe pictures of trees and notice there are animals in many of the trees. Use the language frame to describe your observations.

### UNIT: 1 2 3

Unit: Noisy Tree

EXPLORATION: <a>1</a> 2 2

Use this organizer to record notes on how to structure & scaffold the Activities in your classroom for each Exploration. Decide where/how you will set up the stations (part of LA or Math, or general Learning Centers? Part of Free Choice Centers?), ideas for visual arts & music, extension & home opportunities

#### Activity 1: Tree Model (e.g. Science Center)

Tree Walk - class around campus, families in their own backyards, neighborhoods or parks.

Collect Tree Realia

H20/Sand Table of Realia

Other tree models

Tree Related Literature

**Songs About Trees** 

Puppets

#### **Activity 2: Classifying Noises**

Use 12" X 18" size blackline masters for whole class game - sit in a circle, students all get cards, stand up when they hear their card's sound.
Use same images small group - have small copies, show kids 2 or 3 @ a time, have them pick which is making sound. They can color while they say name & repeat sound, drop images into prelabeled baggies. When finished, they each have a baggy to take home to play "guess the sound" with their family members.

Activity 3: Big Book Reading (whole class read aloud - rug area?)

Puppets to act out tree & animals

Tree Walk

Other tree-related literature read <u>alouds</u>, see Unit 1 Resource sheet.

Related poems, songs & finger plays, see Unit 1 Resource sheet.

Activity 4: Evidence from Pictures (whole class &/or small groups, language arts)

Leaf Realia for patterning

Language Frames - do whole class, then Small groups - set up sentence strips with

images in folders/baskets for students to do with partners &/or small groups @ LA time.

# Work Time: Unpacking Exploration One

### Resource to use:

Exploration 1 PDF (in your PN or TG)

### **FOCUS:**

- Activity 1
- Activity 2
- Activity 3
- Activity 4

Record & Share Ideas on your

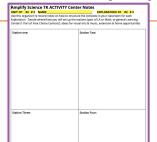
Activity's Jamboard: <u>TK Unit 1 NPE</u> (Slide 32, 92, 104, 108)

#### Questions to answer:

BRAINSTORM

- Purpose of Activity & vocabulary introduced
- Modalities of each activity (do, talk, read, draw & write, or visualize)
- How will this Activity help students develop an understanding of the new key concepts?
- How will this Activity help students answer the science question?
- How could you structure this Activity in your classroom?

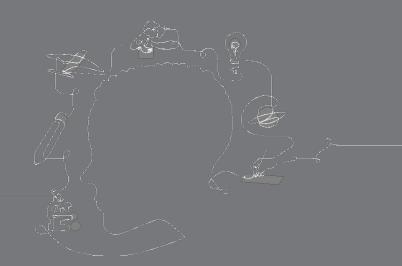
Record your notes for Activities & Centers for each Exploration to plan your unit.



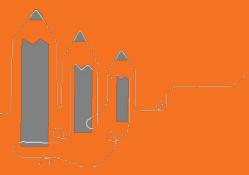
TK Activities
Notes

# Share Out

- Give a synopsis of the Activity the students do and what they learn.
- What are some notes you made about this Activity to support your students?



# Break





# Plan for the Day



Introduction & Framing the day



Navigation & Planning Explorations 2 & 3



New Curriculum & TK Instructional Approach



Planning to Teach-Additional Program Resources



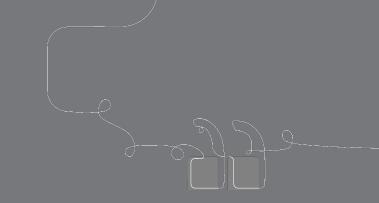
Internalization & Navigation Unit 1



Closing

# Animals in Trees: Framing Activity

- What do you hear?
- What do you picture?
- As you listen to the noises, write what you think it is and what makes you think that.



# **Animals in Trees What do you hear? What do you picture?**

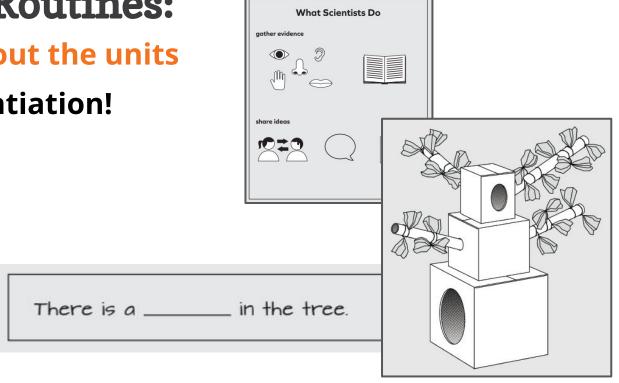


# **Instructional Routines:**

### Repeated throughout the units

### **Building in differentiation!**

- Charts
- Models
- Vocabulary
- Shared Listening & Speaking
- Shared Drawing & Writing
- Science Questions
- Language Frames
- Assessments



# Charts

## **What Scientists Do**

- Not only do students engage with learning science concepts, they are also learning about what scientists do.
- They engage as scientists throughout the unit and add to the chart as they go through.



# **Exploration Two**

Students gather evidence about different kinds of things that animals do in trees.













#### Part 2: Exploration-level internalization

Exploratio 2
Question:

What are the animals doing in the tree that makes so much noise?

#### What do students learn in Exploration 1?

- Animals make noise when they are making a shelter for themselves and/or their babies..
- Scientists ask questions and gather evidence to answer their questions.
   Scientists draw, write, and talk to share their ideas.

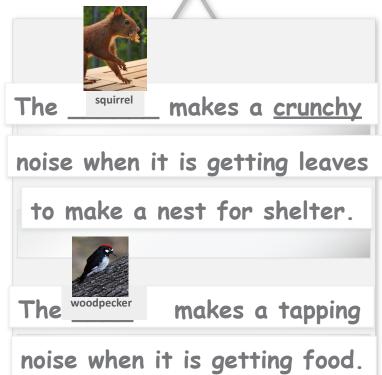
#### What is the purpose of Exploration 1?

The purpose of Exploration 2 is for students to use science practices and ideas about patterns to figure out that animals have important needs for food and for shelter, for themselves and for their babies, and that some animals can take care of their needs in trees

# Unit 1 Shared Drawing & Writing Build - Exploration 2

**Science Question 2:** 

What are the animals doing in the tree that makes so much noise?



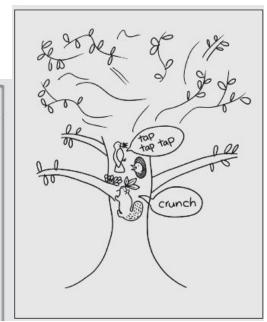
There is a woodpecker in the tree.

The woodpecker makes a tapping

noise when it is getting food

There is a squirrel in the tree.

The squirrel makes a crunchy noise when it is getting leaves to make a nest for shelter.



Science Idea 2: Animals in trees can make noises when they get food and make shelter for themselves or their babies.



How can we incorporate old & new materials to add to our Activities & students' experiences? Tree made w/crumpled paper bag "bark" & leaves turning from summer green to fall colors. Using tree branch rounds to demonstrate & count animals in trees in math!



# Work Time: Unpacking Exploration 2

BRAINSTORM

### Resource to use:

 Explorations 2 PDF (in your TG or online)

### **FOCUS:**

- Activity 1
- Activity 2
- Activity 3
- Activity 4

Record & Share Ideas on your Activity's Jamboard: TK Unit 1 NPE (Slide 32, 92, 104, 108)

#### **Questions to answer:**

- Purpose of Activity & vocabulary introduced
- Modalities of each activity (do, talk, read, draw & write, or visualize)
- How will this Activity help students develop an understanding of the new key concepts?
- How will this Activity help students answer the science question?
- How could you structure this Activity in your classroom?

Record your notes for Activities & Centers for each Exploration to plan your unit.



TK Activities
Notes

# **Exploration Three**



Students gather evidence about why trees are good places for animals to get food and make shelter.

#### Part 2: Exploration-level internalization

Exploration: 3
Question:

Why is the tree a good place for the animals to get food and make shelter?

#### What do students learn in Exploration 1?

- Trees have many parts (branches, twigs, leaves, bark, etc.) that are useful for making shelter. The parts can also be food for certain animals.
- Scientists ask questions and gather evidence to answer their questions.
   Scientists draw, write, and talk to share their ideas.

#### What is the purpose of Exploration 1?

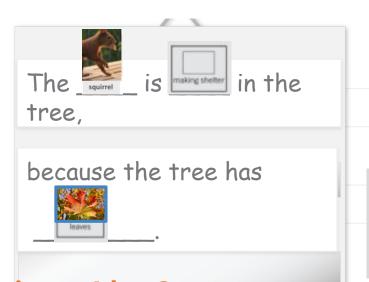
The purpose of Exploration 3 is for students to use science practices and ideas about patterns to figure out that trees have special parts that can be used by animals to make shelter for themselves and/or their babies. Different tree parts from different kinds of trees can also be food for different animals.

# Unit 1 Shared Drawing & Writing Build - Exploration 3

## **Science Question 3:**

Why is the tree a good place for the animals

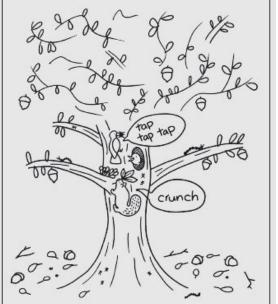
to get food and make shelter?



There is a woodpecker in the tree.

The woodpecker makes a tapping noise when it is getting food.

The woodpecker is getting food in the tree because the tree has bugs.



There is a squirrel in the tree.

The squirrel makes a crunchy noise when it is getting leaves to make a nest for shelter.

The squirrel is in the tree because the tree has leaves.

**Science Idea 3**: Trees are good places for animals to get food and make shelter because trees have things that animals need.

# Work Time: Unpacking Exploration 3

BRAINSTORM

### Resource to use:

 Exploration 3 PDFs (in your TG or online)

### **FOCUS:**

- Activity 1
- Activity 2
- Activity 3
- Activity 4

Record & Share Ideas on your

Activity's Jamboard: TK Unit 1 NPE

(Slide 32, 92, 104, 108)

#### **Questions to answer:**

- Purpose of Activity & vocabulary introduced
- Modalities of each activity (do, talk, read, draw & write, or visualize)
- How will this Activity help students develop an understanding of the new key concepts?
- How will this Activity help students answer the science question?
- How could you structure this Activity in your classroom?

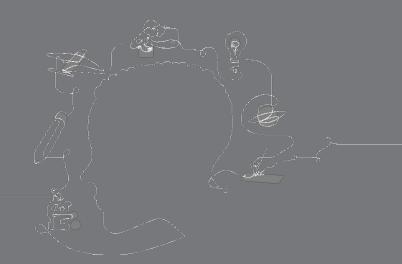
Record your notes for Activities & Centers for each Exploration to plan your unit.



TK Activities
Notes

# Share Out

- Give a synopsis of the Activity the students do and what they learn.
- What are some notes you made about this Activity to support your students?





## Plan for the Day



Introduction & Framing the day



Navigation & Planning Explorations 2 & 3



New Curriculum & TK Instructional Approach



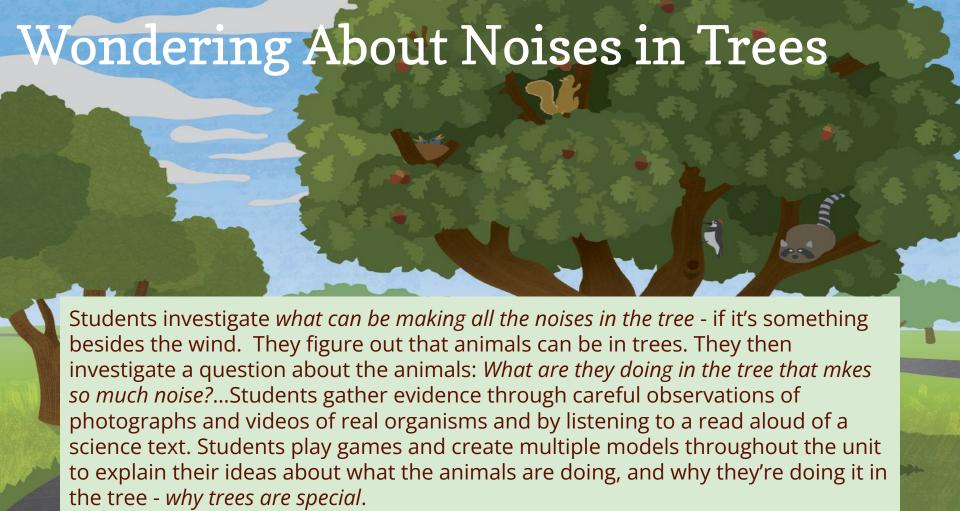
Planning to Teach-& Additional Program Resources



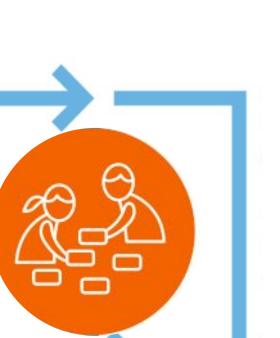
Internalization & Navigation Unit 1



Closing



#### **Multimodal Instruction**

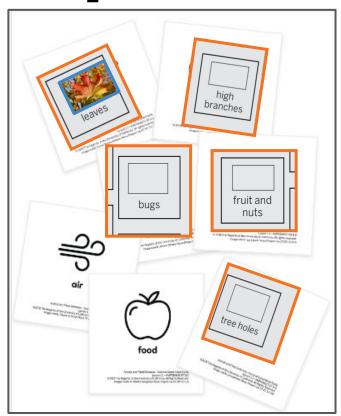


Figuring out and making sense of ideas like scientists & engineers!

- Do
- Talk
- Read
- Draw & Write
- Visualize

**Do**: Activity 3, Playing the *Tree Resources* Card Game

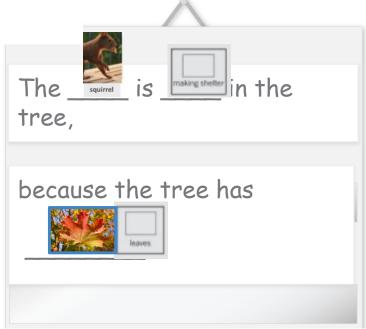
Students play the *Tree*Resources Card game to think about what things trees have that animals might need to make shelter or for food.



#### **Science Question 3:**

Why is the tree a good place for the animals to get food and make shelter?

**Talk:** Language Frames - Talk like scientists!



#### **Science Question 3:**

Why is the tree a good place for the animals

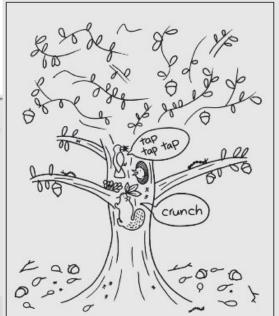
to get food and make shelter?

Draw & Write: students make their own journal pages throughout the unit. They end each Exploration with a shared drawing and writing activity about what they've learned.

There is a woodpecker in the tree.

The woodpecker makes a tapping noise when it is getting food.

The woodpecker is getting food in the tree because the tree has bugs.



There is a squirrel in the tree.

The squirrel makes a crunchy noise when it is getting leaves to make a nest for shelter.

The squirrel is in the tree because the tree has leaves.

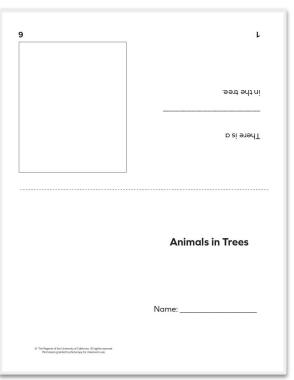
Visualize: An animal and what it's

doing in the tree.

Students visualize animals and what they do in trees. They visualize the plant structures of trees and how animals use them. Students help make a class model, and draw their own pages for a class book. Students play & "act out" the animals in dramatic play with the tree model.







#### **Multimodal Instruction**

Figuring out and making sense of ideas like scientists & engineers!



Do

Students play the Tree Resources card game

Talk

Students talk like scientists about what trees have that is useful for animals.

Read

Students listen to a read aloud about animals in trees.

Write

Draw & Students draw & write their own pages & contribute to a shared-writing/drawing about animals in trees.

Students visualize & help create a Visualize Students visualize & Help create & Class tree model. Students play & "act out" the animals in dramatic play with the tree model.

## Multimodal instruction (multiple at bats)

Activities of different modalities are intentionally sequenced to support deep understanding of complex concepts.



#### Reflection

How will multiple at-bats with multimodal evidence sources support diverse learners in your class to master complex science ideas?



Evidence sources work together

**Teacher tip:** Every evidence source plays an important role in student learning. Be sure to teach every Activity.

 How can we encourage and support students in play-based learning experiences throughout the activities?



#### **Culminating Activities:**

- Reflect on their work as TK Scientists
- Review learning throughout the unit -
- Create **Animals in Trees** Class-Book about how animals use trees with individual student pages.
- Make individual Student Mini-books to send home to families for students share their learning with them.
- Share/post in both Class-Book and Mini-book family photos/video clips in class online gallery.
- If students have made their own tree models, have them bring to share in class - or share via photos &/or short video clips in Class Gallery of projects on Classroom or School-site websites

Home Connection: Mini-Book We are concluding our science unit called Life Science: Wondering About Noises in Trees. One of th important science practices that students have learned about is sharing ideas like a scientist. We invite you to engage your student in the following activity to help develop this practice at home. 1. On each page of the Animals in Trees mini-book, help your student write a word or a few words complete the sentence. Alternatively, have your student dictate to you so you can write what the 2. Have your student draw a picture depicting each sentence. Once the mini-book is complete, read it aloud with your student. You might also have your student share the book with friends or other family members Culminating Activity Students create pages for a class

#### Culminating Activities (TG pages 142-148)

**Animals in Trees** 

book about how animals use trees.



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## TK & UTK - Developmental Considerations

- Engaging, relatable context for learning
- Short activities
- Varied modalities
- Repeated routines
- Supportive teacher modeling and leading
- Experience and exposure to science



## Flexible Implementation: Activity Structures

Which one(s) you see working best for your students?

Implement Activities as a part of your regular Learning Center times in Math or Language Arts, especially Writing Center times..

Small Groups: Teacher introduces the activities in small groups as part of the centers/small group/partner time.

(Optional: making the previously covered activities independent centers)



Large Group/Single center: Introduce the activity as a large group and then open them individually to independent centers Implement Activities as a part of your regular Choice Time Centers along with related Art, Dramatic Play & extra Writing Center time.

Large Group/Multiple
Centers: Introduce the
activities first in large
groups, then once they
have all been done
together open them ALL
up to independent centers

## **UNIT Planning:**

# **Small Groups &/or Partners**

In-person & Hybrid/
Distance Learning:
Activities which will work in a remote environment (ie setup a 'Science Wall' matching with an online class 'Science Wall') - that you can then reinforce & extend during classroom time together.

## Large Group/ One Center

# Resources & Materials

- What do you have already in your classroom that you can add to the unit?
- What is available @ your school site?
- What do you want to create/collect/get donated to be ready to implement the unit?
- What online resources are available to you to implement your unit & share with students?

# **Large Group/ Multiple Centers**

Hands-On, In-Person Classroom Activities to do together.

@ Home Extensions
Hands-On projects to have students do @ home with their families as Family Projects.

Online Gallery & Links to share with families whether in-person or hybrid.

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## Plan for the Day



Introduction & Framing the day



Navigation & Planning Explorations



New Curriculum & TK Instructional Approach



Planning to Teach-Additional Program Resources



Internalization & Navigation Unit 1



Closing





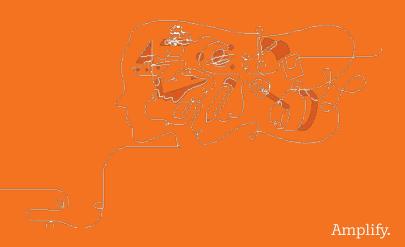
- Navigate the Amplify Science TK curriculum to understand the structure and resources at the Unit, Exploration and Activity levels.
- Experience how all the multimodal activities & instructional routines work together to support students' success.
- Become familiar with planning resources to prepare to teach Amplify Science TK to my students..

(reminder: after lunch go to auditorium)

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Session 2 (after lunch)
UCLA Center X Presentation

## Lunch Break



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Session 3 Planning

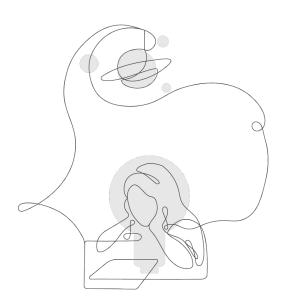


#### **Share Out**

- Let's continue planning our 3
   Explorations for Unit 3.
- Questions? Concerns? Aha's!
- Are you planning differently for the unit after our work today?
  - Have you made any additions to your planning?
  - Have you made any adjustments?
- Check last shared ideas on your Activity's
   Jamboard: <u>TK Unit 1 NPE (Slide 32, 92, 104, 108)</u>









## Teaching science

"Science [is] both a body of knowledge and an evidence-based, model and theory building enterprise that continually extends, refines, and revises knowledge."

## Closing reflection

Based on our work today, please share:

Head: something you'll keep in mind

Heart: something you're feeling

Feet: something you're planning to do

### Additional resources and ongoing support

#### **Customer Care**

Seek information specific to enrollment and rosters, technical support, materials and kits, and teaching support, weekdays 7AM-10PM EST and weekends 10AM-6PM EST.



help@amplify.com



800-823-1969



### Please provide feedback!

#### Type:

Strengthen

#### **Session title:**

Unit one deep dive

#### **Professional Learning Specialist name:**

Insert name

(insert email, if you would like)