



# Virtual Launch *PhD Science® Texas*

Participant Handout

## Texas Essential Knowledge and Skills (TEKS)

Use this space to take notes on how <i>PhD Science Texas</i> is aligned with TEKS.				

#### **Shifts in Science Instruction**

Use this space to take notes on the shifts.

Shift	Notes
Phenomena	
Practices	
Coherence	

## **Student Hat: Level 1 Module 3: Survival**

Observe: '	What do you see?
Dra	ıw.
	Under the Pond (Messner and Neal 2015): Record a list of pond plants and animals as nentioned.

Draw a Model: What do you know?	
1. Draw.	
2. Label.	

# Student Hat: Level 3 Module 2 Survival Butterfly Sketch: Draw a sketch of a butterfly.

Where Butterflies Live Sketch: Draw a sketch that shows what you may find where a butterfly lives. Consider what a butterfly may need to survive. Include as many details as you can.				

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Write down a question you have about butterflies, fossils, or butterfly survival.

Regional Fossils Activity: Match each fossil photograph with the illustration of the organism that formed it.

Fossil	A	В	С
Organism			

st Environment Sketch: Sketch our region's past environment based on observations abo e fossils and the Paleozoic era illustration.	out
ovide an description of what you sketched.	

## Look Like, Sound Like, Feel Like Chart

Throughout the session, use the chart to reflect on what your *PhD Science Texas* classroom will look like, sound like, and feel like when you implement the instructional shifts.

Look Like	Sound Like	Feel Like

# Classroom Footage: Level 3 Module 2: Survival and Change

What do you notice about how the anchor model was developed?				

## **Anchor Visuals**

Use this space to take notes on anchor visuals.

<b>Anchor Visual</b>	Notes
Anchor Model	
Driving Question Board	
Anchor Chart	

## **Curriculum Structure**

Use this space to take notes on PhD Science Texas's curriculum structure.		
Module Overview		
Jse this space to take notes on the Module Overview.		

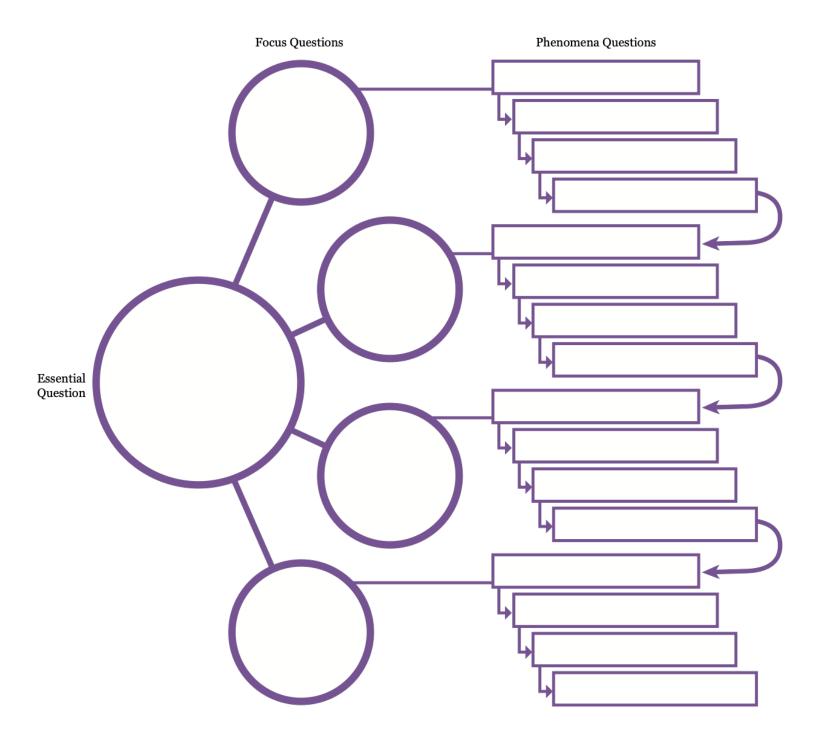
#### **Notice and Wonder: Module Overview**

Record what you notice and wonder about the Module Overview. Focus on the Introduction, Module Map, and Focus Standards.

Part of the Module Overview	I notice	I wonder
Introduction		
Module Map		
Focus Standards		

## **Module Questioning Structure**

Complete the Module Questioning Structure graphic using the questions from the Module Map.



#### **Notice and Wonder: Lesson Set**

As you explore a lesson set, record what you notice and wonder.

I notice	I wonder

#### **Lesson Set**

this space to take notes on the lesson set structure.							

#### Lessons

se this space to take notes on the lesson structure: format, classroom discourse, hands-on vestigations, Science Logbooks, instructional supports and sidebar notes, and homework.						

#### **Assessments**

Use this space to take notes on assessments.

Assessment	Notes
Check for Understanding	
Conceptual Checkpoint	
Engineering or Science Challenge	
End-of-Module and End-of-Spotlight Assessments	
Benchmark Assessment (Levels 3–5)	

# **Module Assessment Exploration**

**Explore the assessments in the Teacher Edition.** 

<ul><li>What do you</li></ul>	notice?
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ιН	ow do	the	assessments	build	on	each	other?
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## Additional PhD Science Texas Resources Notes

Use this space to take notes.

Resource	Notes
Module Resources	
Appendix A	
Appendix B	
Appendix C	
Materials Kits	
Digital Platform	
Art	
Core Texts	

Resource	Notes
Knowledge Deck™ Posters and Cards	
Digital Platform	
Implementation Guide	
Materials Lists	
Pacing Guide	
Preparation Guide	
Preparation Video	
Family Tip Sheet	
Spanish Resources	

Module Resources Exploration
Use this space to record notes on any resources you might need to print or prepare.
Appendix A: Module Storyline Exploration
Use this space to record notes on what you notice about the development of anchor visuals throughout the module or how students engage with the content learning cycle throughout a concept.

## Classroom Footage: Level 3 Module 2 Survival and Change

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# **Appendix B: Module Glossary Exploration**

Jse this space to take notes on how a term in your module is introduced.							

# **Planning Time**

Use this space to record notes as you explore <i>PhD Science Texas</i> resources.							

## Reflection

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y your bigges	st takeaway.		

#### **Works Cited**

English Language Proficiency Standards, 19 Tex. Admin. Code § 74.4 (2007).

Messner, Kate, and Christopher Silas Neal. 2015. Over and Under the Pond. San Francisco: Chronicle Books.

Reiser, Brian J., Michael Novak, Tara A. W. McGill, and William R. Penuel. 2021. "Storyline Units: An Instructional Model to Support Coherence from the Students' Perspective." *Journal of Science Teacher Education* 32, no. 7: 805–829. https://doi.org/10.1080/1046560X.2021.1884784.

Texas Essential Knowledge and Skills for Science, 19 Tex. Admin. Code § 112 (2021).

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