

Weather and Climate: Lesson 1a

Essential Question: How can we prevent a storm from becoming a disaster? Focus Question: How do we describe weather? Phenomenon Question: What happened in Galveston, Texas, in 1900?			
Objective: Observe photographs of Galveston, Texas, before and after the 1900 hurricane and describe the damage.		Materials: Pencil	Projected Slides: 3–10
Share the following items with families in advance of the lesson. <ul style="list-style-type: none"> • Links: Lesson 1a Daily Video, Science Journal Lesson 1a • Materials list • Assignment: After watching the video, students notice and wonder about the 1900 Galveston hurricane and describe a time when they were surprised by the weather. 			
Remote Learning Recommendations			
Type	Pacing	Activity	Notes
Hybrid (in-class synchronous and remote asynchronous)	10–15 minutes	Daily Video	Video description: Students investigate weather hazards by exploring the story of the 1900 Galveston hurricane, which leads them to make observations and ask questions about how a hurricane destroyed an entire city.
	10 minutes	Assignment	The video asks students to notice and wonder about the 1900 Galveston hurricane. Students then describe a time when they were surprised by the weather.
	15 minutes	Virtual Class Meeting (Optional): Science Discourse	Ideally this meeting occurs after students watch the video and complete the assignment: <ul style="list-style-type: none"> • Facilitate a class discussion by asking what students notice and wonder about the 1900 Galveston hurricane. Create a class notice and wonder chart that includes all student responses and send the chart to students. • Read the excerpt from the National Public Radio broadcast, “The Tempest at Galveston: ‘We Knew There Was a Storm Coming, But We Had No Idea’” (Burnett 2017). Use a collaborative conversation routine such as a Fishbowl* and the following question to help students clarify and summarize the main idea of the broadcast excerpt. <ul style="list-style-type: none"> ○ What happened on September 8, 1900, in Galveston, Texas?

* See the Instructional Routines section of the Implementation Guide for more information.

PhD Science in Sync™ Learn Anywhere Plan

	Synchronous	5 minutes	Launch	Refer to Teacher Edition to conduct lesson Launch (Projected slides 3–4). Give all students a chance to participate either in-person or virtually.
		25 minutes	Learn	<p>Refer to Teacher Edition to conduct lesson Learn (Projected slides 5–10).</p> <ul style="list-style-type: none"> Observe Photographs of St. John’s Church <ul style="list-style-type: none"> Create a class notice and wonder chart that includes responses from all students, in-class and remote. Send the class notice and wonder chart to students. Explore the 1900 Galveston Hurricane <ul style="list-style-type: none"> Read the excerpt from the National Public Radio broadcast, “The Tempest at Galveston: ‘We Knew There Was a Storm Coming, But We Had No Idea’” (Burnett 2017). Use a collaborative conversation routine such as a Fishbowl* and the following question to help students clarify and summarize the main idea of the broadcast excerpt. <ul style="list-style-type: none"> What happened on September 8, 1900, in Galveston, Texas? <p>Give all students a chance to participate either in-person or virtually.</p>

Asynchronous	Synchronous	Hybrid
Remote students using in Sync with optional virtual class meeting	Some students in-class and some remote but all participating live	In-class students are synchronous and remote students are asynchronous