2-ESS1-1. Use information from several sources to provide evidence that Earth events can occur quickly or slowly.				
Core PE Use information from several sources to provide evidence that Earth events can occur quickly or slowly. [Clarification Statement: Examples of events and timescales could include volcanic explosions and earthquakes, which happen quickly and erosion of rocks, which occurs slowly.]	DCI • Some events happen very quickly; others occur very slowly, over a time period much longer than one can observe.	CCC • Stability and Change – Things may change slowly or rapidly.	Practices Constructing Explanations and Designing Solutions – Constructing explanations and designing solutions in K-2 builds on prior experiences and progresses to the use of evidence and ideas in constructing evidence-based accounts of natural phenomena and designing solutions. Make observations from several sources to construct an evidence-based account for natural phenomena.	
<u>Activity</u> Whole Class: Brainstorm a list of "earth events," including things like volcanic eruptions, earthquakes, and erosion.	Question What are some earth events?	Objectives / Next Steps • There are many types of earth events, including volcanic eruptions, earthquakes, erosion, flooding, weather events, On what time scale do these events operate?	<u>Notes</u>	
Small Groups: Use a sandbox and sandstone box to compare the rate of erosion of weathered versus unweathered materials.	On what time scale do these events operate?	 Some events occur quickly while others are very slow. Even the same events, under differing conditions, can occur at different rates. 	This activity is an add-on to the <u>2-ESS2-1 lesson</u> . Students can observe weathered sand moving quickly and only tiny bits of sandstone moving.	
Small Groups: Perform some research on another earth event, developing a timeline to describe cause and effect alongside the event's time scale.	On what time scale do these events operate? [Continued]	 Some events occur quickly while others are very slow. Even the same events, under differing conditions, can occur at different rates. 	The <u>illustration guide</u> is an available option. When the students are researching, have them record information sources to provide evidence for their conclusions.	

3	events operate? [Continued]	others are very slow. • Even the same events, under differing conditions, can occur at different rates.	A number of sample timelines are available for reference: • <u>Drought</u> • <u>Flooding</u> • <u>Weathering & Erosion</u> • Wildfires
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