

7.2.3 e2 EXT Rich vs. Poor Narrative

Time: 15-20 minutes	Anchor Phenomena: Homes in Utah have different characteristics than homes in Florida (see phenomenon info sheet)
Big Idea: Structures are engineered to withstand geologic hazards.	
CCCs <u>Structure and Function</u> , <u>Patterns</u>	Practices Ask Questions, Construct an Explanation, Develop Models

EPISODE SNAPSHOT

Economics affects engineering; earthquakes have different impact on the community depending on how much preparation an area can do.

GATHERING

This is a quick enrichment episode to help contrast how an inability to properly engineer structures can affect the amount of damage and injuries caused by an earthquake. Use the PowerPoint to guide students through some of the facts from two different earthquakes: the 2011 Christchurch, New Zealand earthquake, and the 2010 Haiti earthquake.

REASONING

As the class goes through the PPT, discuss how the countries were affected by the earthquakes and contrast the different response times, damage effects, and human cost. While the Christchurch earthquake was slightly smaller in magnitude, it's focus was shallower, which should have meant it would cause more damage than the Haiti earthquake, yet that was not seen.

COMMUNICATE

Students can participate in the class discussion as an enrichment to the earthquake episode.

Assessment: Students should recognize that the amount of money a country/community has affects the engineering they are able to do for natural disasters.	Materials, resources, handouts, etc. • 7.2.3 e2b RichVsPoor PPT
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