

4th Grade			
Earth & Space Science			
Chapter 7 Lesson 3			
Page	Question	Answer(s)	Links/Sources
239	How might your results have been different if there was grass growing on the soil in the pan?	Grass should hold the soil together so even pouring water would not erode it.	
241	How do you think the Grand Canyon provides evidence for the Genesis Flood?	The Grand Canyon provides evidence for "Catastrophic Change" that happens quickly, versus the commonly accepted gradual change.	
241	In what ways would the "fountain of the deep" and all the rain change the appearance of Earth?	Earth is now covered with 70% oceans.	
242	How do you think plants can break down rocks?	Plant roots grow into the cracks of a rock then expand as the plant grows larger. Eventually, this will break the rock into smaller pieces.	
243	How do these [deposition] forces create new landforms?	Deposition creates river deltas. Glaciers drop enough sediment to create rolling hills. Wind can carry enough silt/rain mud to completely change a landscape overnight.	YouTube: 3 Amazing Ways Saharan dust impacts Planet Earth.
244	How do erosion and deposition balance each other?	One process just picks up a building block and the other drops it.	Try explaining with a block of Legos attached to a base plate. "Erosion," pick out a piece, "doesn't make the building block disappear," stick it somewhere else. "Erosion just sets a building block free so deposition can attach it somewhere else."
245	Why was the foolish man's house destroyed?	The rain came down and easily eroded away the sand the house was built on. Then the house collapsed, just like in a real flood.	
246	How do Glacier's help create rivers?	Glaciers carve out a path for a river to flow; instead of just a marshland. Melting glaciers provide enough water to feed rivers.	
249	How does a glacier change the Earth's surface?	It carves valley. It creates hills from deposited rocks. It starts rivers by melting.	
249	What causes canyons to form?	Erosion of land by water.	

4th Grade			
Earth & Space Science			
Chapter 7 Lesson 3			
Page	Question	Answer(s)	Links/Sources
249	Where will the Mississippi River take Illinois soil in a 1000 years, if it keeps flowing as it is today?	The soil will end up in a river delta expanding into the Gulf of Mexico.	
249	Under what conditions will gravity cause the process of erosion to occur quickly rather than slowly?	Lots of rain on steep slopes causes mud slides that can immediately transform large landscapes.	YouTube: Three presumed dead in Alaska landslide.