

Video Questions: *How the Earth Was Made: Season Two: Grand Canyon*

Name: _____ Period: _____ Date: _____

1. How much water can flow down the 1,450 mile long Colorado River every hour? (3:50)
2. What was John Wesley Powell known for? (4:40)
3. What is significant about the 1.7 billion year old Vishnu Schist? (5:50)
4. What did the calcium ratio in the garnets found in the Vishnu Schist tell geologists about the depth at which the Vishnu Schist formed? (7:30)
5. Approximately how many times has the area around the Grand Canyon been under an ocean after the original six mile high mountains there were eroded? (9:30)
6. Why are the rock layers in the Grand Canyon different, but yet most of them are a red color? (10:30)
7. What was different about the Laramide Orogeny from other mountain building events that caused the uplift of the Colorado Plateau? (13:30)

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8. What evidence cleared Hindu Canyon from having anything to do with the formation of the Grand Canyon? (16:20)
 9. When did the Colorado River start to form the Grand Canyon? (19:00)
 10. What is John Douglass's new idea published in 2000 about how the Grand Canyon formed? (23:00)
 11. What does Joel Pederson's sampling of different layers of sediment at the beginning of the Grand Canyon at Lees Ferry tell us about the rate at which the Colorado River cut the Grand Canyon? (26:50)
 12. Why is water alone incapable of carving the Grand Canyon? (30:00)
 13. How does the steepness of the Grand Canyon (average slope = 10 feet per mile) help to carve the deep canyon? (33:00)
 14. What causes the Grand Canyon to be so wide (18 miles across at its widest point)? (35:00)
 15. How did volcanoes erupting at Toroweap Point 780,000 years ago continue to transform the Grand Canyon? (40:00)
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