

Kaibab Mystery Questions—Part 1

Stop 1b: Bright Angel Trail

- Record observations and drawings of the rock at this location.
- What Grand Canyon rock layer are you observing?
- In what type of environment do you think this rock formed?
- The elevation above sea level at this point is 2116 m (6877 feet). How do you think these fossils became part of the rock?

Stop 2d: Hermit Trail

- What do you observe at this stop? Record your observations and drawings. What do you observe happening here? What can putting a few drops of acid on this rock tell you about the rock?
- How can you tell if the rocks found here are part of the Kaibab Formation?
- What do you think the approximate elevation is at this stop?

Stop 3B: Cedar Mountain

- What type of landform is Cedar Mountain? (Hint: It's not a mountain.)
- What types of rock do you think Cedar Mountain is made of? (Hint: It is made of two different types of rock.)
- Is Cedar Mountain older or younger than the Kaibab Formation? How do you know? (Hint: Look in the resources book for help.)
- What processes caused the formation of Cedar Mountain?

Stop 4b: Outside the East Entrance

- How could the Kaibab Formation be at a higher elevation at Desert View than it is here at Stop 4? (Note: Desert View and Cedar Mountain are out of sight beyond the top of slope in the distance.)
- What processes caused this difference to happen?

Stop 5b Old Highway 64

- Record your observations and sketches of what you see of the images from Stop 5. What are two questions you might have about what you observe?
- What could have happened to create what you observe here?
- The Kaibab Formation is the top layer of rocks across the highway. The rocks on this side of the road lie on top of the Kaibab Formation. Are these rocks younger, older, or the same age as Kaibab? How do you know?
- How might these rocks be related to the rocks that make up Cedar Mountain at Stop 3?

Stop 6b Along Navajo Trail, Highway 89

- Record your observations and sketches of what you see at this stop.
- What are the objects you observe at this stop? How big are they?
- How did they form?
- Are these objects younger, older, or the same age as the Kaibab Formation?
- Where did all of that sand come from?

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