

Name _____

Period _____ Date _____

CHUAR BUTTE OBSERVATIONS

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Turn to the picture of Chuar Butte in the *Earth History Resources* book. Look at the shape of the outline of the butte and the area on both sides of the Colorado River.

1. How would you describe the shape of Chuar Butte's outline?

It looks like a staircase made of cliffs and slopes.

2. What kinds of rocks tend to form the cliffs?

Limestone and sandstones tend to form cliffs.

3. What kinds of rocks tend to form the slopes?

Shales and the rocks of the Supai Sandstone tend to form slopes.

4. What is it about sandstone, shale, and limestone that might cause the slopes and cliffs to form?

Shale is soft or weak and erodes away easily, forming slopes. Limestone and sandstones are usually harder and don't crumble as easily. These harder rocks form cliffs.

5. What do you think Chuar Butte would look like today if it were made only of shale?

It would probably be just a rounded hill or mound. Most of it would have broken apart and eroded away.
