

## How well can you identify different types of erosion in the field?

### Location #1: A valley in Scotland



#### A clue....

1. Scotland receives a lot of rain, which sometimes falls as snow in the higher mountains

#### Step 1: Make observations and gather evidence....

1. Is this valley “v-shaped” or “u-shaped”? \_\_\_\_\_
2. Does this valley have a large powerful river? \_\_\_\_\_
3. With your pencil, trace the top of the small ridge the people are walking on.
4. Is this ridge self-supported or is it attached to the sides of the valley? \_\_\_\_\_
5. What could have formed the narrow ridge they are walking on? \_\_\_\_\_

#### Step 2: Use the evidence to draw a conclusion....

Based on your evidence above what do you think is most likely to have formed this valley?

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## Location #2: The Wyoming desert



### Some clues....

1. The Wyoming desert is very windy
2. It gets only a very small amount of rainfall each year
3. The rocks are made of sandstone, which easily weathers into sand

### Step 1: Make observations and gather evidence....

1. Draw arrows pointing to at least three towers of rock in this picture.
2. Are there plants, trees and soil here? \_\_\_\_\_
3. Are there rounded boulders, gravel, or other evidence of a river? \_\_\_\_\_
4. Are the rocks in the picture still attached at their base? \_\_\_\_\_

### Step 2: Use the evidence to draw a conclusion....

Based upon your observations, what process could have formed these towers of rock?

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### Location #3 The California coast north of Santa Barbara



#### Step 1: Make observations and gather evidence....

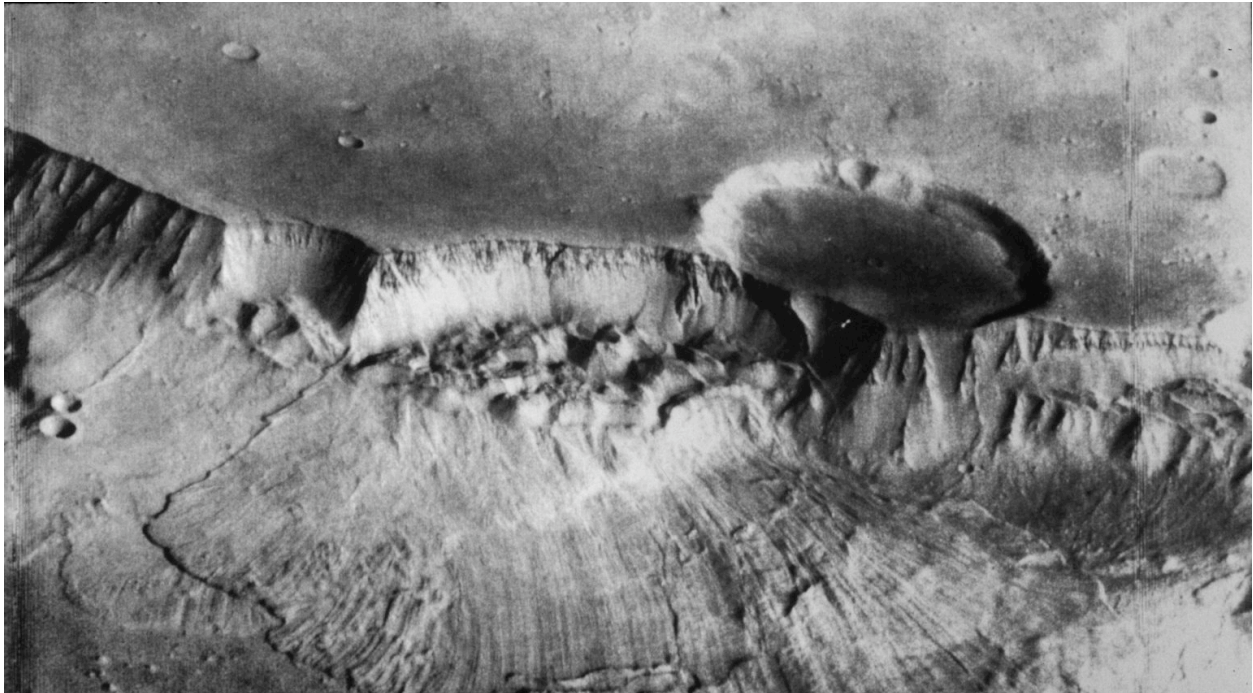
1. Draw arrows on the picture pointing to the three flat terrace surfaces
2. Are they attached to the hillside in the background or freestanding? \_\_\_\_\_
3. Are they parallel to the shoreline or perpendicular? \_\_\_\_\_
4. Is there a river here that could have formed these surfaces? \_\_\_\_\_

#### Step 2: Use the evidence to draw a conclusion....

Based upon your observations, what process could have formed these terraces?

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## Location #4: The planet Mars



### Clues...

1. This is a photo taken from a satellite orbiting over the surface of Mars.
2. The circular craters are caused by impacts with small meteoroids

### Step 1: Make observations and gather evidence....

1. Draw arrows pointing to some of the craters you see (big and small)
2. Draw a line along the top of the steep cliff you see in this picture
3. Draw arrows at the places where the top of the cliff appears scoop shaped
4. Is the cliff face below the "scoops" smoother or rougher than other places? \_\_\_\_\_
5. What is at the bottom of the cliff below the "scoops" \_\_\_\_\_

### Step 2: Use the evidence to draw a conclusion....

Based upon your observations, how is this cliff eroding?

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