

12/07

Catastrophic Events

#8

What are you planning to do this weekend to get your science project finished on time?

look over the rubric for the project.

Learning target: I can infer from rock layers if a catastrophic event has occurred.



Principle of Original Horizontality

Sediment is originally deposited in horizontal layers.



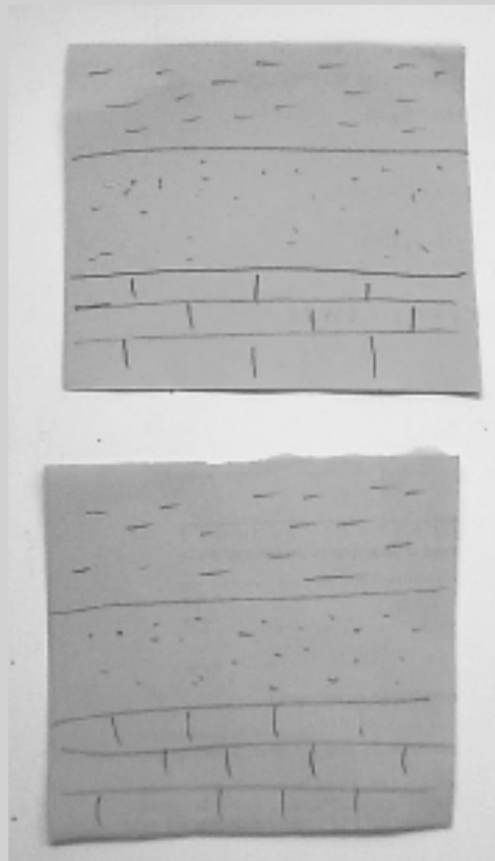
Learning target:

I can infer from rock layers if a catastrophic event has occurred.

What happens if pressure from in the layers causes the layers to move?

On goos paper draw the rock column that represents the rock layers in your basin.

Do this twice!

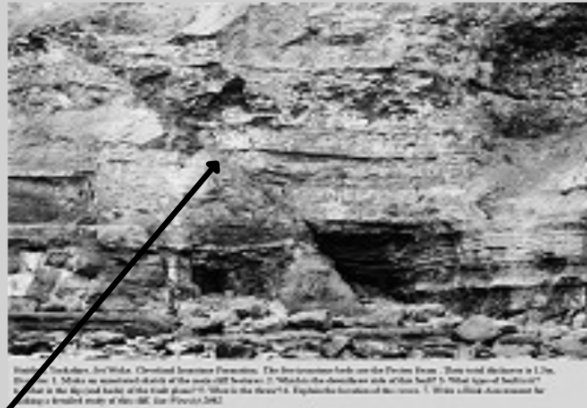


Learning target: I can infer from rock layers if a catastrophic event has occurred.

Faulting



<http://www.geology.pitt.edu/GeoSites/Bakerstown%20normal%20fault.jpg>
Normal fault



Faults are cracks in the earth where sections of a plate (or two plates) are moving in different directions. Faults are caused by all that bumping and sliding the plates do. They are more common near the edges of the plates

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Normal faults are the cracks where one block of rock is sliding downward and away from another block of rock. These faults usually occur in areas where a plate is very slowly splitting apart or where two plates are pulling away from each other.

Other types of faults are;

Reverse faults are cracks formed where one plate is pushing into another plate

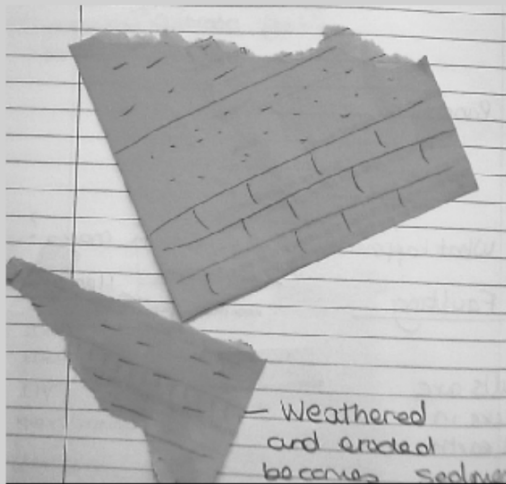
Strike-slip faults are the cracks between two plates that are sliding past each other. You can find these kinds of faults in California. The San Andreas fault is a strike-slip fault. It's the most famous California fault and has caused a lot of powerful earthquakes

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<http://www.geology.pitt.edu/GeoSites/Bakerstown%20normal%20fault.jpg>
Normal fault

What happens if the layers tilt??



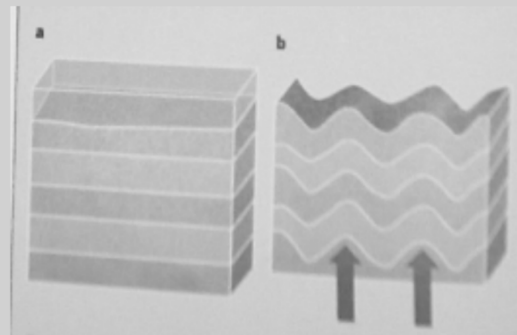
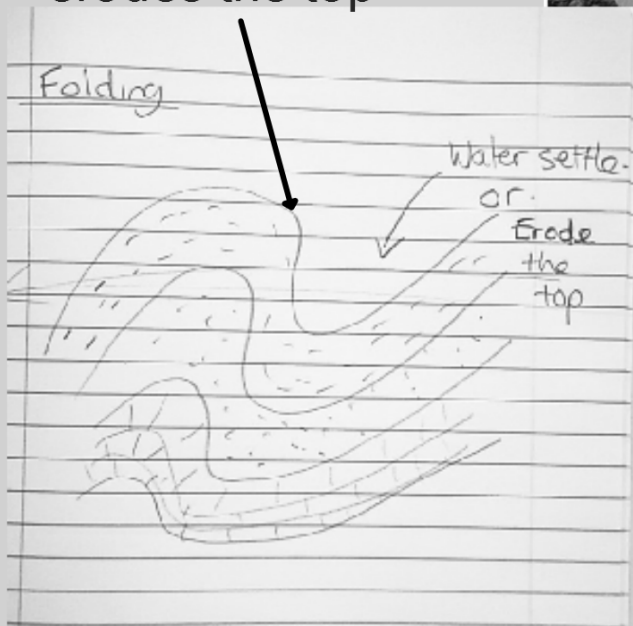
Weathered and eroded material becomes sediment

Learning target:

I can infer from rock layers if a catastrophic event has occurred.

What happens if the layers are folded?

Water settles or erodes the top



Learning I can infer from rock layers if a catastrophic event has target: occurred.



What can you infer about the rock features in this picture?

Learning target: I can infer from rock layers if a catastrophic event has occurred.

Sticky Exit!

Read the learning target.....

How would you score yourself on the learning target?

Place your sticky note on the board as you leave.

Learning target: I can infer from rock layers if a catastrophic event has occurred.

