

**CONFLUENCE**

Go to <http://formontana.net> and then click on picture # 67.

1. Get your Montana Highway Map. Look on the back to find the Montana map that shows the “Lewis and Clark Trail”. What color is the line that represents the path of Lewis and Clark as they were coming into Montana in 1805?
2. As they were headed west on this path, were they going with the flow of the Missouri River, or against it?
3. Look at the other side of the Montana highway Map. Find the confluence of the Missouri and the Marias Rivers. If they had followed the Marias River, what part of the state would it have taken them to? Be specific.
4. Why was the expedition so confused when they reached this place?
5. Why did the men think that they should take the north fork (now called the Marias River)?
6. What discovery confirmed Lewis and Clark’s theory that the south fork was the real Missouri River?
7. **Click on the Hot Link titled “The Marias River Basin”.** List four towns located in the Marias River Watershed.
8. Explain why the photos on the web site make the expedition’s decision look like a “no brainer”.
9. Use your Montana highway Map to find the confluence nearest the place where you live. List the two rivers that join there.

## **FLOODING**

Go back to <http://formontana.net> and then click on picture # 69.

10. Use your Montana Highway Map to find the confluence of the Milk River and the Missouri River. Which town is closest to that confluence . . . Glasgow, or Nashua?
11. When did the flood shown in the photo happen?
12. What is a levee?
13. Why was there concern that Glasgow was going to flood in the spring of 2004?
14. Why didn't Glasgow flood that year?
15. Describe how the flood of 1964 killed 19 people near Dupuyer.
16. Find Dupuyer and the continental divide on your Montana Highway Map. Is Dupuyer east, or west of the divide?
17. Locate Birch Creek and Depuyer Creek. List all the rivers that the water from these two streams would flow through on its way to North Dakota.
18. Find the river closest to the place where you live and then list all the rivers that the water flows through on its way out of the state.

## **GLACIAL MILK**

Go to <http://formontana.net> and then click on picture # 91. Look at the image and read the explanation below the image.

19. What is "rock flour", and how is it formed?

20. Why does the rock layer stay suspended in the lake water rather than settling to the bottom of the lake during the summer?
21. When and why will the rock flour finally settle to the bottom?
22. What are varves, and how are they formed?
23. What caused the water to be such a spectacular shade of blue (called glacial milk)?

### **GRASSHOPPER GLACIER**

Go to <http://formontana.net> and then click on picture # 83.

24. Use your Montana Highway Map to locate Cooke City just northeast of Yellowstone Park. What river has its headwaters just north of Cooke City?
25. The highest point in Montana is Granite Peak just north of Cooke City. How high is it?
26. Why isn't Grasshopper Glacier (pictured on the web site) considered to be a true glacier?
27. What is one theory about how the grasshoppers came to be deposited in this snowfield?
28. Why have the grasshoppers been decomposing in recent years?