How the Ice Age Helped Shape Montana Go to the following web site: http://formontana.net/base.html

20 to the folio :: Ing :: 00 site:	
A. Click on the link titled MISS	OURI RIVER.
1. On the map shown on the web	site, what does the solid (not dashed) red line mark the location of?
2. What is unusual about the Mil suggests that the valley was not	k River Valley from Havre to Nashua? (This unusual feature formed by the Milk River.)
	theast toward Canada's Hudson Bay. Now it flows through the issippi River near St. Louis. Explain what caused the change?
4. Click on the Hot Link titled "*valley is wider? Circle one.	Compare the Map to an image that shows topography". Which a. The pre-ice age Missouri Valley from Big Sandy to Havre b. The present valley of the Missouri southeast of Big Sandy
B. Click on RETURN TO BASE	CAMP. Then click on the link titled HI-LINE.
5. How do geologists know that	the rock in the photo was not formed in north-central Montana?
6. Rocks like this one from Canac aren't rocks from Canada found	da can be seen scattered throughout north-central Montana. Why south of the Missouri River?
7. What river's valley is marked	#4 on the photo?

C. Click on RETURN TO BASE CAMP. Then click on the link titled STRIATIONS.

8. Explain how a glacier caused the striations shown in this photo.

9. What do the scratches help geologists figure out?
10. Besides striations, what two other types of evidence help geologists figure out how far south the ice advanced during the last ice age?
D. Click on the link titled ICE AGE AMERICA.
11. In which part of the United States did the ice sheet extend the farthest south?
12. This map depicts the continent as it appeared years ago.
13. Was Alaska covered with ice during the ice age depicted on the map?
E. Go back to the base camp at http://formontana.net/base.html . Click on LAKE GREAT FALLS.
14. What two conditions combined to cause the formation of Glacial Lake Great Falls?
15. The cut bank in the photo shows silt and clay deposited on the bottom of prehistoric Lake Great Falls. Why would the smallest particles (silts, clay) only settle to the bottom of the lake as it froze over during the winter?
16. How do geologists know how deep the lake was where the city of Great Falls sits today?
17. Scroll down to the map at the bottom of the screen. List three other glacial lakes that existed in Montana at times during the last ice age.
F. Click on RETURN TO BASE CAMP. Then click on LAKE MISSOULA.
18 What caused the unusual parallel lines highlighted by snow on this Missoula mountainside?

H. Click on RETURN TO BASE CAMP. Then click on the link titled MORAINE. 28. This photo, taken 30 miles north of Missoula, shows a "lateral moraine". Where did the rock material that makes up the moraine originate? 29. Why did the glacier deposit this rock material (till) here? 30. One aspect of "till" that helps geologists identify it is that it is unsorted. What does "unsorted" sediment consists of? 31. Was this moraine formed by a continental glacier (a.k.a. icecap), or by a valley glacier? I. Click on RETURN TO BASE CAMP. Then click on TROUGH. 32. How can geologists tell that a glacier once flowed through this valley? 33. Why do alpine glaciers eventually stop advancing?

34. What must be true of the climate in order to an especially large "end moraine" to form?