

## Geography: Topography & Mountains

**Exercise: 1** 

Instructions: Answer the	e fol	lowing	questions:
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1. Much of the topography in southeast Idaho is the result of Basin and Range faulting, creating successive mountain ranges and valleys. When did this Basin and Range faulting begin?
2. What is believed to be the total lateral extension undergone by southeast Idaho since Basin and Range faulting began?
3. Use the Eastern Idaho drainage & mountain range map and color all the mountain ranges named. Color those that you believe to be a result of Basin and Range faulting a different color than the others. (hint: use Rocks, Rails & Trails maps on page 4 and page 5 to help decide).
4. Those mountains that are not the result of Basin and Range faulting are the result of what?
5. Which mountain(s) have the oldest rocks? (look at maps on page 4 and page 5).

sing the Eastern Idaho Geology map label the following places with the corresponding letters:
A. Middle Proterozoic rock in the northern Lemhi Range.
B. Middle Proterozoic rocks near Borah Peak.
C. Archean rocks of the Albion Mountains.
D. The closest place in Idaho to the Tetons.
E. Late Proterozoic rocks of the Bannock Range.
F. Late Proterozoic rocks of the Portneuf Range, near Pebble Creek Ski area.
ocate the following geographic and geologic features on the Eastern Idaho drainage & mountain range map, but the corresponding letter for each in the correct box on the map. Use each letter only one time:
A. Albion Mountains core complex
B. Craters of the Moon
C. Lost River Sinks
D. Location of Paris thrust fault
E. Location of major springs where the Snake River aquifer feeds the Snake River system downstream from Massacre Rocks
F. Sublett Range
G. Shoshone Lava Field
H. Pioneer Mountains core complex
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I. Location of the largest reservoir on the Snake River Plain
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<ul><li>I. Location of the largest reservoir on the Snake River Plain</li><li>J. Bannock Range</li><li>K. Location of the thickest outcrops of the Permian Phosphoria Formation</li></ul>