

## Geology 101 – Skinner

### Geologic map of your home state.

#### Due

My home state is \_\_\_\_\_ missouri \_\_\_\_\_ and I live in the city/town of \_\_\_\_\_ Kansas City \_\_\_\_\_.

1. Start with the big picture. Is your state (hometown) located on a shield, **stable platform**, or mountain belt (circle one)? (Use page 326 of your text if you need help)

2. Now “zoom in” a bit and determine the physiographic province in which your town is located.

My town is located in the \_\_\_\_\_ central lowlands \_\_\_\_\_ physiographic province. (Find the physiographic province by visiting <http://geologycafe.com/physiographic/index.html> ). You will need to toggle between the two images to find the province name for your state. You may also use the map in the homework folder on LearningSuite.

3. Now determine the age (geologic period) of rocks in your hometown area. The age of rocks exposed in my hometown is \_\_\_\_\_ pennsylvanian period \_\_\_\_\_ (permian) \_\_\_\_\_ (insert the geologic period here (e.g., “Precambrian”, Permian, Jurassic, and so on). To accomplish this click on the Tapestry Main Page and select “color legend” or go to <http://pubs.usgs.gov/tm/2005/11B01/pdf/plate.pdf> You can also look in the back cover of the text book.

4. What is the absolute age range (numbers) of the geologic period you gave as the answer in question 3? Age ranges between \_\_\_\_\_ 323.2 \_\_\_\_\_ millions of years and \_\_\_\_\_ 298.9 \_\_\_\_\_ millions of years.

(Use the same link listed in question 3. An age is given for the lower and upper bounds of each period. For example, the Permian Period began 286 Ma (million years ago) and ended 248 Ma.

Geologic Maps. A geologic map shows the age and (usually) types of rocks by color or patterns on a topographic or relief map (see “Geologic Map” under Wikipedia for more information). There are standard colors for the geologic periods (study the map’s key). For the following questions you will need a geologic map of your home state. Find one with a simple internet search, i.e. “geologic map of ???”. Select the appropriate state map. Make sure to look around and find a key that explains what geologic periods each color represents.

5. Print the map and key (in color, if possible) and attach it to this assignment.

6. Indicate (mark) your hometown on the map and write in the name of the town. (You will probably have to use another map of your state that shows roads and cities to help you pinpoint your hometown on the geologic map.)

I marked the map with a pin and am labeling it “Kansas City”

7. What did you learn?

What were the two most interesting facts about the geology of your state/town that you learned from this exercise?

- I didn’t realize Pennsylvanian was an era
- Its also interesting how diverse Missouri is in geological time periods