

## Homework #1 – History and Importance of Geology in Iowa

### Session 1 - Geologic History, Concept and Tools

1. To the extent of your current knowledge describe the geology of your county (4 pts) Try to be as specific as you can, but don't stress about finding out every detail... Just trying to learn where you are in the geologic knowledge of your specific area. (About a paragraph)

2. Of the nine BIG IDEAS in Earth Science Literacy (first half of our presentation and in your syllabus), which two make the most sense to you/why AND which two are the most difficult to understand and/or teach, why? (4 pts) Here is a link for the Big Ideas

[https://scied.ucar.edu/sites/default/files/images/long-content-page/earth science literacy brochure.pdf](https://scied.ucar.edu/sites/default/files/images/long-content-page/earth%20science%20literacy%20brochure.pdf)

3. Using the [www.understandingscience.org](http://www.understandingscience.org) website and check out

<https://undsci.berkeley.edu/for-educators/prepare-and-plan/teaching-tips/>, you can find grade specific info here <https://undsci.berkeley.edu/for-educators/teaching-guides/>

In general, do you agree with the advice provided on this website? How interested are your students in science, do you think these tips are useful, would they help your student understand science? (4) Looking for a paragraph here... Most of this is opinion, but do try to include and/or reference the material provided within the website.

4. Who applied geochemistry (U/Pb isotopic decay) to the Earth's crust revealing its absolute age. (2)

5. Using the discussed geology principles try to relatively date, this diagram. (6)

