

## Geological Geocaching

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1. Earn the Geology or Rocks and Minerals Honor.
2. Earn the Geocaching Honor.
3. Briefly explain the difference between sedimentary, igneous, and metamorphic rock formation. Give examples of types of rocks/minerals in each category.
4. Explain how water and wind are primary influences in changing the geology of a region or area. Give examples from your state or region.
5. Do one of the following individually or with a small group.\*
  - a. Visit and sign up on geocaching.com and find five (5) or more geocaches in your area.\*
  - b. Visit and sign up on geocaching.com and find three (3) types of geocaches in your area from the classifications below.\*  
Mineral/fossil Site, mining site, historical site, hydrological feature, geomorphological feature, river feature, cave/karst feature, coastal feature, erosional feature, fault/fold feature, sedimentary feature, metamorphic feature, igneous feature, glacial feature, other feature
  - c. Visit and sign up on geocaching.com and find three or more geocaches in two states/provinces/countries.\*\*
6. Give a report to an instructor or group on the things you learned / experiences you had while completing the activity requirements for this honor. You may use presentation software, photos, or other presentation media as part of your report?
7. Read the Creation story in Genesis 1:1-2:3.
8. Discuss with an instructor, pastor, or qualified youth leader how Creationist Christians understand the formation of the earth in six literal days of creation. You may contrast this view with the Evolutionist view if necessary.

### Notes:

\*Earthcache.org contains a list of geocaches. Not all geocaches are currently classified, but they are rather self-explanatory, and once you view the descriptions for several geocaches, it will be easy to see which classification they would fall in. A geocache can only fall in one classification for purposes of this honor.

\*\*5c qualifies you to receive the Bronze Earthcache Master award from earthcache.org

**Original Honor 2012**

**Skill Level 2**

## **Geological Geocaching, Advanced**

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1. Earn the Geological Geocaching Honor.
2. Earn the Advanced Geocaching Honor.
3. Earn the Advanced Rocks and Minerals or Advanced Geology Honor.
4. Summarize the guidelines for submitting an earthcache for publication.
5. Do one of the following individually or with a small group.
  - a. Visit and sign up on geocaching.com and find twelve (12) geocaches. Also, write and have published on geocaching.com two earthcaches.\*
  - b. Visit and sign up on geocaching.com and find five (5) types of geocaches from the list below.  
Mineral/fossil Site, mining site, hydrological feature, geomorphological feature, river feature, cave/karst feature, coastal feature, erosional feature, fault/fold feature, sedimentary feature, metamorphic feature, igneous feature, glacial feature, other feature.\*
  - c. Visit and sign up on geocaching.com and find (15) earthcaches. Write and have published on geocaching.com one earthcache.
6. Read the story of the flood in Genesis 6-9. Discuss the geological impacts a global flood might have on the formation of the geological features we see today.
7. Discuss with an instructor, pastor or qualified youth leader how Creationist Christians understand the formation of the geological column. You may contrast this view with the Evolutionist view, if necessary.

**Original Honor 2012**

**Skill Level 3**