

## 7 Midterm Lab Exam Review Guide

1. Identify the main geologic influences on Dubuque, including minerals, glaciation, and the river.
2. Read a topographic map, determining latitude, longitude, contour interval, and main features,
3. Determine relative age of sedimentary rocks,
4. Calculate a topographic gradient, given a contour map, and
5. Identify the following minerals without a key, giving your reasoning:
  - calcite
  - feldspar
  - galena
  - graphite
  - gypsum
  - halite
  - hematite
  - magnetite
  - malachite
  - mica
  - pyrite
  - quartz
6. Identify the following igneous rocks:
  - pumice
  - obsidian
  - rhyolite
  - granite
  - andesite
  - diorite
  - basalt
  - gabbro
7. Identify the following sedimentary rocks:
  - shale
  - sandstone
  - conglomerate
  - breccia
  - limestone
8. Identify the following metamorphic rocks:
  - gneiss
  - schist
  - slate
  - marble
  - quartzite