

## Grand Canyon Stratigraphy – Rock Layers of the Grand Canyon

**Due Date:** Thursday 3 October 2024

1. In class, Tue October 1: Select rock layer in class; feel free to trade with someone else.
2. Determine for selected layer:
  - (1) Composition
  - (2) Source material and rock type (Sedimentary, Igneous, Metamorphic)
  - (3) Layer morphology (cliff vs. eroding slope, texture)
  - (4) Most upriver exposure (where found in GC)
  - (5) Color(s)
  - (6) Layer age range
  - (7) Sound likely present during formation, that you can mimic or vocalize
3. Next class, Thur Oct. 3: bring (1)-(7) and piece of clothing or other fabric matching rock color.

### **Grand Canyon Rock Layers** (some layers with limited distribution omitted)

Kaibab Limestone

Toroweap Formation

Coconino Sandstone

Hermit Shale

Supai Group (Esplanade, Wecogame, Manakacha, Watahomigi)

Redwall Limestone

Temple Butte Limestone

Muav Limestone

Bright Angel Shale

Tapeats Sandstone

Chuar Group (Kwagunt & Galeros Formations)

Cardenas Basalt

Dox Formation

Shinumo Quartzite

Hakatai Shale

Bass Limestone

Vishnu Schist and Zoroaster Granite