

MAPS, TIMESCALES, AND EARTH'S PROCESSES

ACTIVITY: Working in 4 groups, with each group having 1 grad fellow, discuss the following questions. We will ask you to report out at the end of this activity.

Maps chosen for this activity

- a. Grand Canyon Topography and Geology
- b. Geologic Map of North America
- c. San Francisco Bay and Monterey Bay
- d. North America Geology/Topography

PART I: TECTONIC TIMESCALES: QUESTIONS TO THINK ABOUT

- (1) What types of data are shown on each of your maps?
- (2) How does the spatial scale of the maps affect what you can see? (what are the advantages and limitations of this scale)
- (3) What types of tectonic processes and timescales can be taught using your maps?

PART II: GLACIAL-INTERGLACIAL TIMESCALES: QUESTIONS TO THINK ABOUT

- (4) How does the spatial scale of the maps affect what you can see? (what are the advantages and limitations of this scale)
- (5) What types of glacial-interglacial processes and timescales can be taught using your maps?
- (6) What other types of maps could you use in your classroom to address spatial and temporal processes that occur on the Earth?