

# Geology

Geology  
Consolidated rock

Shale  
marble

Siltstone  
gneiss

Sandstone  
topography

1. 99% of rocks are composed of what 8 elements?
2. What are the 3 types of rock? How are they formed?
3. How do the following types of soil differ? Grave, sand, silt, clay
4. What does the theory of plate tectonics describe?
5. What are 2 common types of plate margins?
6. Describe how California geology changed over time (as shown in Figure 3.3), highlighting plate boundaries, volcanism, sedimentary events.
7. What are the 5 events involved in soil formation?
8. Contrast mechanical and chemical weathering.
9. Why are old soils often less fertile than young soils?
10. How does soil pH affect mineral availability?
11. Describe a typical soil horizon, highlighting the main material for each of the following horizons: O, A, B, C, D.