

CHAPTER 9:

LAND *How Does it Shape Us?*

You should be familiar with these words:

- core
- mantle
- crust
- lithosphere
- asthenosphere
- tectonic plates
- faults
- rock cycle
- igneous rock
- weathering
- erosion
- sediment
- sedimentary rocks
- metamorphic rocks
- mineral
- landform
- topography
- watershed
- drainage basin
- hillslope
- floodplain
- delta
- soil
- infiltration
- soil horizon
- soil profile
- topsoil
- humus
- soil order
- salinization
- leaching
- urbanization

By the end of this chapter, you should understand...

- ★ Illustrate the internal structure of the Earth. (9.1)
- ★ Research the evidence that led to our understanding of the different rock layers. (9.2)
- ★ Summarize what tectonic plates are and the effects of their movement. (9.3)
- ★ Distinguish between the three different types of plate boundaries. (9.4)
- ★ Use a diagram to show how Earth materials get recycled (the rock cycle and how the three different types of rocks form). (9.5)
- ★ Explain how minerals are related to rocks and why they are important. (9.6)
- ★ Reflect on the costs and benefits of mining practices. (9.7)
- ★ Examine how water shapes the surface of the earth. (9.8)
- ★ Break down the components of soil and its critical role in ecosystems. (9.9)
- ★ Use CLORPT to characterize the factors of soil formation and classification (eg. soil quality, origin, leaching, salinization). (9.10)
- ★ Recommend strategies to minimize impact of mining, farming, forestry and urbanization on the landscape. (9.11)