

## Eprep 5 Water On and Under the Ground

### Overview of the Chapter:

1. Before reading or looking at the chapter, write down what you know about the hydrologic cycle, how water affects land and groundwater – from prior experiences
2. Write down 3 questions of your own that you want to know about surface water (rivers, lakes) and groundwater
3. Look through the chapter and find 5 figures that capture your interest and briefly describe your each figure.

### Chapter Questions

1. Draw the hydrologic cycle and briefly describe the life a water drop. In other words, how does the hydrologic cycle work?
2. Briefly define the following terms that describe the characteristics of a river.  
a. stream channel      b. gradient      c. discharge      d. stream load
3. Draw a diagram that shows a straight, meandering and braided stream. In each diagram, identify the type of gradient responsible for the formation of this type of stream.
4. When discharge of a stream increases, describe what happens to the stream velocity. When gradient increases, describe what happens the stream velocity
5. Briefly explain how a flood occurs and give reasons that increases the “risk” of flooding in an area
6. Briefly describe how are floods predicted in a given area
7. Draw a pie diagram illustrating the slices (percentages) of salt water, lakes, streams/rivers, groundwater and water held in the atmosphere
8. Describe the differences between porosity and permeability
9. What is groundwater and how is it related to the water table
10. What is an aquifer?