Vocabulary:

- hydrologic cycle
- evapotranspiration
- water table
- ground water
- infiltration
- runoff
- base level
- gradient
- load
- discharge
- saltation
- competence
- capacity
- meanders
- floodplain
- oxbow lake
- porosity
- permeability
- aquifers
- sinks
- springs
- cone of depression
- artesian
- water budget
- karst
- aquifers
- sinks
- springs
- cone of depression
- artesian
- water budget
- karst

Objectives:

1. Illustrate and describe the possible movements of water through the hydrologic cycle.
2. List the factors upon which runoff, infiltration, and evapotranspiration are dependent.
3. Explain the relationship between the discharge of a stream and the stream's velocity.
4. List the three methods of load transport of a stream.
5. Differentiate between competency and capacity.
6. Describe the required circumstances for the existence of an aquifer.
7. List the prime factors involved in valley development.
8. Describe the sequential stages in valley development.
9. Illustrate and explain the development of a meandering stream and the resultant possible cutoffs. (Consider the shifting of the streams maximum velocity.)
10. Differentiate between porosity and permeability.
11. Explain the erosional process of ground water.
12. List two conditions that are required for the development of karst topography.
13. List the three major categories of water usage and discuss their respective quantity and quality problems.