Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_\_\_\_\_

Hydrology Unit Test Review

**The Hydrology Unit test will cover the following activities:** Chapter 6 in Earth Science Text, Hydrology Vocabulary, Bell Ringers, Porosity Lab, Drainage Basins, Watershed Activity, Groundwater, Surface Water, USGS Lab,

**Complete these review questions using complete sentences to prepare for the test.**

1. Know the following vocabulary and be able to apply these terms, review your vocabulary pages.
   * Tributary
   * Watershed/Drainage Basin
   * Divide
   * Runoff
   * Porosity
   * Permeability
   * Impermeable
   * Aquifer
   * Infiltration
   * Headwaters
   * Discharge
   * Point Bar
   * Cut Bank
   * Alluvium
   * Oxbow lake
   * Confluence
   * River Mouth
   * Deposition
   * Erosion
   * Groundwater
   * Gradient
   * Velocity
2. Place the order of water abundance in the Hydrological Cycle stages (Glaciers, atmosphere, oceans, surface water, groundwater).
3. If you have sand, clay and large gravel, which of these is the most porous? Which is impermeable?
4. How does running water’s energy change in the river and how does that affect rock particles? (What water can carry mud vs rocks?)
5. How does acid mine drainage occur?
6. What is the difference between deposition and erosion? How do these change a river’s shape? Where does erosion occur? Where does deposition occur?
7. Explain 3 possible contaminants to groundwater in Helena.
8. How can you help conserve Helena’s water quantity?
9. What are 3 major concerns the City of Helena has regarding Tenmile Watershed?
10. How does the discharge of a Montana river change throughout the year (hint: CFS goes up and down)?
11. Diagram a watershed of a river system and locate divide, tributary, headwaters, confluence and know the direction of water flow.