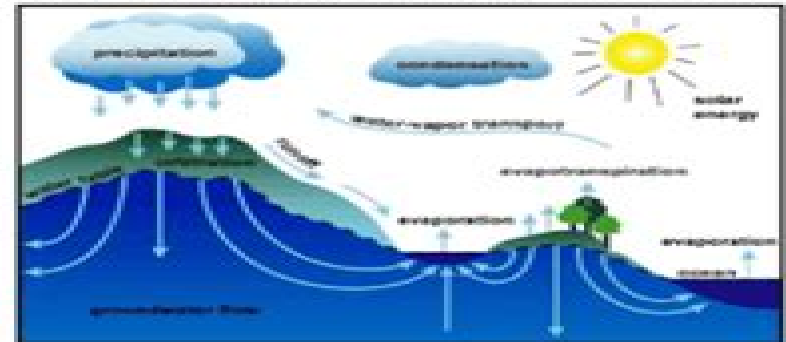


Earth Science Study Guide Semester 2 Exam

For the semester exam, you will need to understand the following:

1. Explain all steps of the water cycle, know how to include them in a diagram, and how they are similar and different:
 - a. **Runoff:** **surface water**
 - b. **Evaporation:** **liquid to gas**
 - c. **Condensation:** **gas to liquid**
 - d. **Precipitation:** **rain/ snow/sleet/hail**
 - e. **Groundwater:** **fresh water UNDER ground**
 - f. **Infiltration:** **absorption into soil**
 - g. **Transpiration - evaporation from plants**
 - h. **Evapotranspiration- evaporation from animals, plants, soil**
 - i. What powers the water cycle? **SUN**



Phase changes of matter

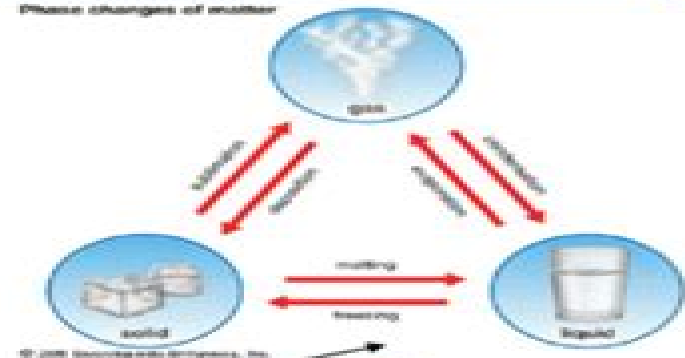
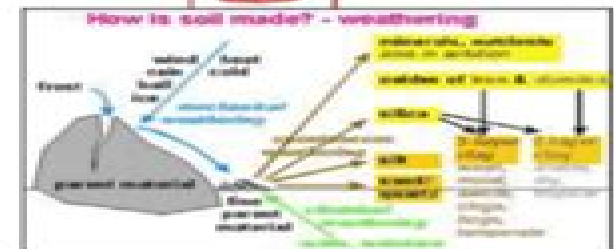
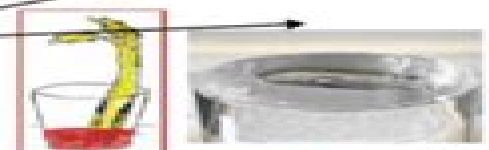


Figure 1
Diagram of water molecule arrangement in solid, liquid, and gas phases.



3. Properties of water (explain and compare each)
 - a. **Cohesion - surface tension- water sticks to water**
 - b. **Adhesion - water sticks to "stuff"**
 - c. **Universal Solvent- water (solvent) dissolves "stuff" (solutes)**
 - d. Which of these contributes **MOST** to soil formation? **Weathering/ universal solvent**



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JG Myers



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