Name: _____ Date: _____ Period: _____

GROUNDWATER FOUNDATION
Provide | Educate | Sustain

IS GROUNDWATER A RENEWABLE RESOURCE?

1. Select the appropriate word from the list below and write the letter next to it in the blank space next to its definition below.

A. Cone of Depression	**E.** Overwithdrawal	**I.** Well Closure
B. Depletion	**F.** Safe Yield	**J.** Well Siting
C. Drawdown	**G.** Subsidence	**K.** Wellhead Protection Area
D. Monitoring Well	**H.** Well	

_____ The process of sealing a well that is no longer being used to prevent groundwater contamination and harm to people and animals.

_____ The zone around a well in an unconfined aquifer that is normally saturated, but becomes unsaturated as a well is pumped, leaving an area where the water table dips down to form a cone shape.

_____ A bored, drilled or driven shaft, or a dug hole whose purpose is to reach underground water supplies.

_____ A protected surface and subsurface zone surrounding a well or well field supplying a public water system to keep contaminants from reaching the well water.

_____ A non-pumping well that is used to measure the elevation of a water table or water quality.

_____ Withdrawal of groundwater over a period of time that exceeds the recharge rate of the supply aquifer. Also referred to as “mining the aquifer”.

_____ A depression of the land surface as a result of groundwater being pumped.

_____ The annual amount of water that can be taken from a groundwater source over a period of years without depleting that source beyond its ability to be replenished naturally. Also known as sustainable yield.

_____ A lowering of the groundwater level caused by pumping.

_____ Location of a well placed to best protect water quality, access adequate water quantity, and allow for inspection and maintenance of the well.

_____ The loss of water from groundwater where water is used faster than it is replaced.

2. Explain the complications that may result from aquifer overwithdrawal.

3. Research and explain factors that can affect well location due to water quality and contamination concerns.