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| **Level of Achievement** | **Content of Work** |
| **Exemplary (6-7 pts)** | **Question 1:** Identifies more than 2 reasons that the Ogallala is important to the United States in terms of agriculture and a natural resource. Clearly shows how the aquifer is connected to the hydrological cycle and the community that lies above it and discusses how this connection can be affected utilizing data obtained online or in class. Uses several examples on the connection of use, the importance, and conservation of users to the health of the Ogallala Aquifer.  | **Question 2:** Describes 3 or more ways in which groundwater in the Ogallala is connected to the hydrological cycle and how those connections are related to one another. Identifies 3 or more specific ways in which the overuse of groundwater impacts the hydrological cycle. Describes 3 or more ways to minimize the effects of over-pumping through conservation, restoration, and modifications of lifestyles and agricultural habits.  | **Question 3:**Describes more than 3 various groups in society that use groundwater and to what extent and how they would be affected by changes in groundwater levels. Uses data from previous USGS exercise to support the answer.  | **Question 4:** Provides a detailed report, 2 or more pages, for the farmer that uses 3 or more reasons for declining water level and uses data to support the hypothesis. Uses graphs and well data in the report. Gives 3 or more steps that can be taken to minimize the problem in the future.  |
| **Quality (4-5 pts)** | **Question 1:** Identifies only two reasons on that the Ogallala is important to the United States in terms of agriculture and a natural resource. Uses few examples on the connection of use, the importance, and conservation of users to the health of the Ogallala Aquifer. | **Question 2:** Describes fewer than than 3 ways in which groundwater in the Ogallala is connected to the hydrological cycle. Makes a few connections to how those connections are related to one another. Identifies fewer than 3 specific ways in which the overuse of groundwater impacts the hydrological cycle. Describes fewer than 3 ways to minimize the effects of over-pumping through conservation, restoration, and modifications of lifestyles and agricultural habits.  | **Question 3:** Describes fewer than 3 various groups in society that use groundwater and to what extent and how they would be affected by changes in groundwater levels. References data from previous USGS exercise to support their answer.  | **Question 4:** Provides a short report, 1-2 pages, for the farmer that uses 1-2 reasons for declining water level and uses data to support the hypothesis. Uses only a few (2-3) graphs or well data points in the report. Gives only 1-2 steps that can be taken to minimize the problem in the future.  |
| **Adequate (2-3 pts)** | **Question 1:** Recommends only one strategy but ties it to the hydrologic cycle and Ogallala Aquifer.Uses only one example on the connection of use, the importance, and conservation of users to the health of the Ogallala Aquifer levels.  | **Question 2:** Describes only 1 way in which groundwater in the Ogallala is connected to the hydrological cycle. Identifies only 1-2 specific ways in which the overuse of groundwater impacts the hydrological cycle.  | **Question 3:** Describes only 1 or 2 various groups in society that use groundwater and to what extent and how they would be affected by changes in groundwater levels. References data from previous USGS exercise but does not explain how it supports their answer.  | **Question 4:** Provides a short report, 1 page, for the farmer that uses 1 reason for declining water level and uses data to support their hypothesis. Uses only 1 graph or well data point in their report. Gives only 2 steps that can be taken to minimize the problem in the future.  |
| **Needs Improvement (0-1 pts)** | **Question 1:** Restates the scenario with its water resource problem. Uses no examples on the connection of use, the importance, and conservation of users to the health of the Ogallala Aquifer. | **Question 2:** Describes no ways on how the Ogallala groundwater is related to the hydrologic cycle or how changes in society can improve its condition. Provides no examples on how the Ogallala is utilized/managed.  | **Question 3:** Describes only 1 group in society that uses groundwater and to what extent and how it would be affected by changes in groundwater levels. Does not use data from previous USGS exercise to support the answer.  | **Question 4:** Provides a short report, less than 1 page, for the farmer that does not use data to support the hypothesis. Uses no graphs or well data point in their report. Gives no steps that can be taken to minimize the problem in the future. |