**Aquifer Map Activity**

Kansans receive their water from a combination of ground water and surface water depending on where they live. In this activity, you will identify your home county and two other counties in Kansas’ water source, precipitation, and prominent aquifers. First, find your county on the county map and label it beside “Home County” and then answer the questions. Repeat the process with two other counties of your choice, one from the eastern side of the state (County 2) and one from the western side (County 3). Use the maps provided to answer the questions.

**Home County:**

Look at the map labeled “Proportion of Water Source in Kansas Map” What proportion of ground water vs surface water does your county receive its water from? Circle below

**All Ground Water Mostly Ground Water Half and Half Mostly Surface Water All Surface Water**

Is your county located on top of the High Plains Aquifer (shaded grey)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Look at the “Precipitation Map of Kansas”, how much rain does your county receive every year? \_\_\_\_\_\_\_\_\_\_\_ inches

**County 2 (an eastern county):**

What proportion of ground water vs surface water does County 2 receive its water from? Circle below

**All Ground Water Mostly Ground Water Half and Half Mostly Surface Water All Surface Water**

Is this county located on top of the High Plains Aquifer? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How much rain does this county receive every year? \_\_\_\_\_\_\_\_\_ inches

**County 3 (a western county):**

What proportion of ground water vs surface water does County 3 receive its water from? Circle below

**All Ground Water Mostly Ground Water Half and Half Mostly Surface Water All Surface Water**

Is this county located on top of the High Plains Aquifer? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How much rain does this county receive every year? \_\_\_\_\_\_\_\_\_ inches

**Review the Precipitation Map of Kansas:**

1. What part of the state receives the most water? How much?

2. What part of the state receives the least water? How much?

3. How does precipitation change across Kansas?

**Review Proportion of Water Usage in Kansas Map:**

1. How would you describe the differences in surface water and groundwater usage across Kansas?

2. Where is the High Plains Aquifer roughly located in Kansas?

3. How does annual precipitation influence our source of water in Kansas and what role does the High Plains aquifer play?