

Student Tasks for the Story Map “Groundwater Resources Depend on Water Conservation”

Record your answers in your Science Journal

By Kristi Pierce

1. Using the Subsidence viewer map, type in your address and record the change in elevation between 1977 and 2018.
2. Read the article from the Houston Chronicle “For years, the Houston area has been losing ground”.
 - a. Why is the Houston area sinking?
 - b. Analyze the chart “Houston-Area Subsidence 1974” which area experienced the most subsidence?
3. Write a short reflection on which consequence of subsidence could impact your home the most.
4. Take the groundwater quiz. What was the most startling thing you learned?
5. On the virtual subsidence tour look very closely at the bird’s eye view of the Red Bluff Road in Seabrook, TX. Based on what you have learned so far why do you think only part of the bridge is submerged?
6. The Harris-Galveston Subsidence District regulates groundwater resources. Based on the Subsidence Map showing annual rates of change, find the closest monitoring well to our school, how many centimeters a year has our school changed between 2014-2018?
7. Use the Water footprint calculator to see how your household compares to the rest of America.
8. Think about your house, is it water smart based on EPA standards? If it’s not what are somethings you can do to conserve water?
9. Leaks are a huge water waster that you are paying for! What are ways you can detect leaks in your home?
10. Search for native plants in our area. Which one is your favorite?
11. Watch the video about the LEED certified building at the Morris Arboretum. What was the most surprising thing you saw?
12. Draw your own design of a LEED certified school and school yard. Be sure to label the water conservation features.