



## JBSWC: *Geology grades 6-12*

**Introduction:** Students will spend at least 50% of instruction time immersed in the JBS wetland, with a guided boardwalk tour focusing on fossils, their formation and how features of the wetland, including landforms, soils and rock types, are tied to events in the Earth's geological past.

TEKS	Learning & Skill Objectives
<p><b>Earth System Science (adopted 2021)</b></p> <ul style="list-style-type: none"><li>• The student understands the rock cycle and the structure of the Earth</li><li>• Interpret Earth surface features using a variety of methods</li><li>• Investigate and model how surface water and groundwater change the lithosphere</li><li>• Model the process of mass wasting, erosion, and deposition in constantly reshaping Earth's surface</li></ul>	<p><b>Learning</b></p> <ul style="list-style-type: none"><li>• origins of rock &amp; mineral types within Earth's geological cycle</li><li>• fossil types and the environments they form in</li><li>• relationship between soil and geology</li></ul> <p><b>Skills</b></p> <ul style="list-style-type: none"><li>• collecting and describing soil samples</li><li>• introduction to preparing fossils and the creation of fossil casts</li><li>• investigation of rock and mineral types through Moh's hardness scale</li></ul>

### Summary:

- **Rocks and Minerals** - Students will learn the basic geological processes of rock formation and plate boundaries
- **Geological History of Texas** - Students will be introduced to the major periods of time and events in Earth's history that influenced present-day Texas. They will describe Texas' major landforms
- **Fossil Formation** - Students will observe fossil specimens and learn about the depositional environments they form in
- **Aquifers & Groundwater Resources** - Students will understand the geological composition and formation of aquifers, and learn the relationship between geology, groundwater recharge, and water supply

