



JBSWC: *Water Conservation grades 4-5*

Introduction: Students will spend at least 50% of instruction time immersed in the JBS wetland, with a guided boardwalk tour focusing on JBS's role in creating an urban water cycle and recycling water for municipal use. Students will conduct water testing and learn about citizen science initiatives that guide water conservation efforts.

TEKS	Learning & Skill Objectives
<p>Earth & Space (adopted 2021)</p> <ul style="list-style-type: none"> • The student knows that there are processes on earth that create patterns of change • The student understands how natural resources are important and can be managed • The student knows that there are recognizable patterns and processes on Earth <p>Force Motion and Energy (adopted 2021)</p> <ul style="list-style-type: none"> • The student knows that energy is everywhere and can be observed in cycles, patterns, and systems 	<p>Learning</p> <ul style="list-style-type: none"> • hydrologic cycle and urban water cycle • threats to water accessibility • JBSWC's role in water conservation and strategies for water conservation in other areas <p>Skills</p> <ul style="list-style-type: none"> • analyze and develop solutions for international water accessibility issues • demonstrate natural and manmade cycles • evaluate water quality in field setting, graph results

Summary:

- **Hydrologic Cycle** - Students will learn about the water cycle and its connection to weather and climate, and the function of wetland components.
- **Threats to Human Water Accessibility** - Students will be introduced to the various sources of drinking water such as lakes, rivers, reservoirs, etc. They will investigate the factors that threaten water supply and access and what humans are doing to mitigate the threat.
- **Urban Water Cycle** - Students will learn about the urban water cycle, especially in relation to the role John Bunker Sands Wetland Center plays in providing water for surrounding communities.
- **Conserving Water** - Students will learn about and develop solutions for conserving water such as artificial wetlands, condensation collectors, and what we can do in our homes to help.

