

Vertical Alignment of Weather and Climate

TEKS in Focus highlights key concepts and student expectations to assist educators in implementing the Texas Essential Knowledge and Skills (TEKS). The vertical progression of a concept within the TEKS is provided along with a side-by-side view of the changes implemented in 2024.

Elementary School

Level of Study	Prior Science TEKS	
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Middle School

Level of Study	Prior Science TEKS	TEKS Implemented in 2024
Grade 6	-----	-----
Grade 7	-----	-----
Grade 8	<p>8.10.A recognize that the Sun provides the energy that drives convection within the atmosphere and oceans, producing winds;</p> <p>8.10.B identify how global patterns of atmospheric movement influence local weather using weather maps that show high and low pressures and fronts;</p> <p>8.10.C identify the role of the oceans in the formation of weather systems such as hurricanes.</p> <p>-----</p> <p>-----</p>	<p>8.10.A describe how energy from the Sun, hydrosphere, and atmosphere interact and influence weather and climate;</p> <p>8.10.B identify global patterns of atmospheric movement and how they influence local weather; and</p> <p>8.10.C describe the interactions between ocean currents and air masses that produce tropical cyclones, including typhoons and hurricanes.</p> <p>8.11.A use scientific evidence to describe how natural events, including volcanic eruptions, meteor impacts, abrupt changes</p>