

Climate Change Controversy
Trimester 3 Atmosphere and Weather Curriculum Map

Learning Targets	Content Sequence	Assessments
<p>I can explain how the major factors that control the earths climate system work.</p> <p>Standards 6 Standard 4, indicator: 2.1a</p> <p>I can evaluate claims made by the media about the science behind climate change.</p> <p>Standards: 2, 6, 7 Standard 4, indicators: 2.1a, 2.2</p> <p>I can develop a theory to explain how weather patterns may shift based on climatic events</p> <p>Standards 6, 7 Standard 4, indicators: 2.1a-i, r, 2.2</p>	<p>Introduction and Hook</p> <ul style="list-style-type: none"> - Climate in the Media: <ul style="list-style-type: none"> - 'Climategate' - Less Americans believe - Bill Gates and energy - Chalk Talk: what you know <p>Does Climate Change?</p> <ul style="list-style-type: none"> - Weather vs climate - Earths Climate History <ul style="list-style-type: none"> -Who controls the climate? - Weather Tracking Lab <p>How Does Climate Change?</p> <ul style="list-style-type: none"> - Carbon cycle game - Greenhouse effect - CO2 Lab - Variations in Earths Orbit - Analysis of sunspot data. <p>Is it Getting Hot in Here?</p> <ul style="list-style-type: none"> - Data analysis and manipulation <ul style="list-style-type: none"> - Local and global heat and precipitation data over past 110 years <p>Identifying the Cause</p> <ul style="list-style-type: none"> - Investigating the possibilities - Ice Core Lab - Evaluating the recent controversies...do they hold water? <p>Possible Outcomes</p> <ul style="list-style-type: none"> -3 Scenarios - “The Weather Makers” - Albedo Lab - Weather <ul style="list-style-type: none"> - Pressure, density, and convection - Making a cloud - How could weather systems change? - Postcards from the future - Project: possible effects other earth systems <p>Where do we go from here? Earth Day activism projects</p>	<p>Formative</p> <ul style="list-style-type: none"> - Chalk Talk – what you know - Weather and climate anchor charts - CO2 lab - Who controls the climate notecatcher. - Data Manipulation lab <p>Summative Quiz CO2 lab write-up and analysis</p> <p>Formative:</p> <ul style="list-style-type: none"> - Whats changing the climate Lab - Ice Core Lab - Albedo Lab - Three scenaros <p>Summative: Quiz Evaluating Claims and Controversies</p> <p>Formative Postcards from the future Weather lab work</p> <p>Summative: Quiz Impact on Earth System Project Myth/Fact Analysis</p>