

A Journey Through Space and Time
Trimester 2 Astronomy Curriculum Map

Learning Targets and Standards	Content Sequence	Assessments
<p>I can explain our current scientific understanding of the origins of the universe, solar system, and earth.</p> <p>Standards 6 Standard 4, indicators: 1.2 a-c</p>	<p>Origins Myths of Creation – religion and astronomy The Big Bang - theory and evidence Exploring Whats in the Universe Project</p> <p>“We are All Connected” Song - Intro The Evolution of Elements - From the Big Bang to Supernova - Solar System Origins A New Periodic Table? - The journey of carbon/other elements</p>	<p>Formative: Myth of Creation Analysis – relationship between stories and worldview Whats in the Universe Project Universe Graphic Organizer “We are all Connected” Writing Journey of Carbon and their own origin stories</p> <p>Summative Own Origin Stories Quiz Cumulative Project</p>
<p>I can identify major discoveries in astronomy (past and present) and explain their significance</p> <p>Standards 6 Standard 4, indicators: 1.1, 1.2 d-f</p>	<p>Ancient Astronomers -Observable phenomena from earths rotation -Effects of the moons revolution</p> <p>Changing Worldviews Conceptions: Model of the Solar System Geocentric/Heliocentric models – what were they and why Galileo and the Telescope - what would you have done? Keplers Laws</p> <p>Modern Astronomy Hitchhikers Guide to the Solar System Project Sagan Walk Presentations Discussions/Openers on Recent Big Discoveries - How could these change our worldview?</p>	<p>Formative Ancient Astronomers worksheet Polaris Worksheet Question-Answer-Response Readings Competing Models Venn Diagram Timeline of Big Discoveries Keplers Laws Lab Hitchhikers Guide Project</p> <p>Summative Quiz Cumulative Project</p>
<p>I can analyze how humans sense of time developed.</p> <p>Standards 6 Standard 4, indicators: 1.1, 2.1i, 2.2</p>	<p>How Does Time Change? Changing Perceptions Lab Opener Biorhythem – Common Read and Jigsaw Keeping time - Clocks and Calendars - The speeding up of time (sideways view) Reason for the Seasons Lab Panel Project</p>	<p>Formative Perception of Time Lab Reason for the Seasons Lab: Prove It Field Journals</p> <p>Summative How Does Time Change Panels Cumulative Project</p>

7 week unit on astronomy

Origin Stories – Myth – find a constellation – watch understanding change over time

Timeline – focus on a time by doing things like - write a persuasive speech in favor of the helio centric theory (either?) based on what they would have known at the time....later on throw them some of the new exciting things going on to discuss + then do a project researching one of the pieces of technology you found interesting.

Origin Stories – Big Bang – Splendor Sois (constellation?) – what makes earth unique?

Summative – make a book about the constellation, how our understanding of it would have changed over time and highlight some discoveries.

A 3 week unit on time:

hours days months years seasons --- minutes. The increasing speed of time; technology.

Human perception of time hook, biorhythm jig, time labs (stick – hours, seasons, constellations)

I can evaluate the role of technology in modern life.

Timeline activity

Research paper

Mix with myth of progress here?

technology redesign? Analyziz of the value of tech?

Research on tech over time.

Myth of progress stuff mixed into this unit with technological progress!