

Month/Year	Content	Skills	Assessment	Resources
August	<b>Exosphere</b> Cosmology Age of Universe Big Bang	All processes	quizzes, observation log, test, labs	Observation Log (need to develop/adapt) How Old are the Jewels? <a href="http://www.noao.edu/education/jewels/home.html">http://www.noao.edu/education/jewels/home.html</a>
September	The Night Sky Formation of the Solar System (Ch 6) Earth (Ch 3 & Ch 8)		quizzes, observation log, test, labs	Observation night w/log Build telescopes? Make a comet demo <b>Hurricane Tracking Lab?</b> Stellarium/Starry Night Lab Investigations
October	Moon (Ch 4) Life of Stars (Ch 5) Our Sun		quizzes, observation log, test, labs	Observation night w/log Reproduce Eratosthenes' size of Earth exp. Hertzprung-Russell diagram Lab Stellarium/Starry Night Lab Investigations Spectroscopy Lab
November	Other Planets Goldilocks Principle Habitable Zones		quizzes, observation log, test, labs	Observation night w/log Relative scale of Solar System (adding machine tape) Create a realty brochure for your star UV Lab Stellarium/Starry Night Lab Investigations
December	<b>Lithosphere</b> geologic time (Ch 13) fossils minerals and rocks (Ch 7)		quizzes, observation log, test, labs	Observation night w/log <b>Timeline project?</b> Half-life Lab Half-life of a Twizzler <a href="http://www.darylsience.com/Demos/Half-LifeTwizzlers.html">http://www.darylsience.com/Demos/Half-LifeTwizzlers.html</a> <b>Chesapeake/Devon Energy Speaker?</b>
January	plate tectonics earthquakes volcanoes		quizzes, observation log, test, labs	Observation night w/log Mineral Properties Lab ID a rock lab <b>Geoblocks Lab?</b> <b>Mystery of the far-flung fossils lab?</b> <b>Oklahoma geological survey speaker?</b>
February	<b>Atmosphere</b> compositi		quizzes, observation	Observation night w/log Water bottle gardening

	<ul style="list-style-type: none"> <li>— on (Ch 14)</li> <li>— insolation (Ch 15)</li> <li>— temp and pressure (Ch 16)</li> </ul>		log, test, labs	<ul style="list-style-type: none"> <li>— Black hot/White not</li> <li>— Matter of Degree Lab</li> <li>— Make a Barometer</li> </ul>
March	<ul style="list-style-type: none"> <li>— humidity clouds and precip (Ch 17)</li> <li>— wind, air masses, fronts (Ch 18)</li> <li>— storms and weather (Ch 19)</li> </ul>		quizzes, observation log, test, labs	<ul style="list-style-type: none"> <li>— Observation night w/log</li> <li>— Isothermic charts</li> <li>— Sling psychrometer</li> <li>— <b>Fronts Lab?</b></li> <li>— <b>Frost Formation?</b></li> <li>— Oh Hail No! Lab</li> </ul>
April	<p><b><u>Hydrosphere</u></b></p> <ul style="list-style-type: none"> <li>— Hydrologic Cycle</li> <li>— Oceanography</li> <li>— Fresh Water</li> <li>— Glaciers</li> </ul>		quizzes, observation log, test, labs	<ul style="list-style-type: none"> <li>— Observation night w/log</li> <li>— Glacier research project</li> <li>— Measuring Salinity Lab</li> <li>— Butterfly garden</li> </ul>
May	<p><b><u>Biosphere</u></b></p> <ul style="list-style-type: none"> <li>— ecological systems (Ch 31)</li> <li>— biomes (Ch 32)</li> </ul>		quizzes, observation log, test, labs	<ul style="list-style-type: none"> <li>— Observation night w/log</li> </ul>