

Topic/Unit & Resources	Approx. Time	Related Standards
<p>Interdependence https://www.brainpop.com/games/foodfight/ https://www.brainpop.com/science/ecologyandbehavior/foodchains/ https://www.brainpop.com/games/foodchaingame/ https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=13&sqi=2&ved=0CGMQFjAMahUKEwjc19jnrf7GAhUFez4KHfgbC5U&url=http%3A%2F%2Fsmmy.ycdsb.ca%2Fteachers%2Fjburton%2F16CFF9E1-0119EDCC.6%2FAbiotic vs. Biotic%252Bweb.ppt&ei=0ry3VdymK4X2-QH4t6yoCQ&usg=AFQjCNHMQqteev3hbvcngsFJZjS6VK8rCQ&bvm=bv.98717601,d.cWw http://www.science-class.net/archive/science-class/Ecology/ecosystems_biomes.htm http://www.teachersfirst.com/lessons/biomes/</p>	4 weeks	<p>SPI 0607.2.1 Classify organisms as producers, consumers, scavengers, or decomposers according to their role in a food chain or food web.</p> <p>SPI 0607.2.2 Interpret how materials and energy are transferred through an ecosystem.</p> <p>SPI 0607.2.3 Identify the biotic and abiotic elements of the major biomes.</p> <p>SPI 0607.2.4 Identify the environmental conditions and interdependencies among organisms found in the major biomes.</p>
<p>Inquiry and Technology & Engineering http://streaming.discoveryeducation.com/teacherCenter/lessonPlans/pdfs/3-5_Science_TechnologyItsBenefitsAndNegativeEffects.pdf https://app.discoveryeducation.com/search?Ntt=mythbusters https://www.brainpop.com/search/search.weml?keyword=Scientific+method http://biologycorner.com/worksheets/controls.html</p>	6 weeks	<p>SPI 0607.Inq.1 Design a simple experimental procedure with an identified control and appropriate variables.</p> <p>SPI 0607.Inq.2 Select tools and procedures needed to conduct a moderately complex experiment.</p> <p>SPI 0607.Inq.3 Interpret and translate data in a table, graph, or diagram.</p> <p>SPI0607.Inq.4 Draw a conclusion that establishes a cause and effect relationship supported by evidence.</p>

		<p>SPI 0607.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error.</p> <p>SPI 0607.T/E.1 Identify the tools and procedures needed to test the design features of a prototype.</p> <p>SPI 0607.T/E.2 Evaluate a protocol to determine if the engineering design process was successfully applied.</p> <p>SPI 0607.T/E.3 Distinguish between the intended benefits and the unintended consequences of a new technology.</p> <p>SPI 0607.T/E.4 Differentiate between adaptive and assistive engineered products (e.g., food, biofuels, medicines, integrated pest management).</p>
<p>Universe</p> <p>Bill Nye: “Moon”</p> <p>https://sciencebob.com/oreo-cookie-moon-phases/</p> <p>http://www.moonconnection.com/moon_phases_calendar.phtml</p> <p>http://sciencenetlinks.com/interactives/moon/moon_worksheet/moon_worksheet.html</p> <p>http://education.nationalgeographic.com/activity/the-reason-for-the-seasons/</p> <p>http://www.sun.org/encyclopedia/asteroid-s-meteoroids-meteors-meteorites-comets</p> <p>http://printableworksheets.in/?dq=Eclipses</p>	<p>7-8 weeks</p>	<p>SPI 0607.6.1 Use data to draw conclusions about the major components of the universe.</p> <p>SPI 0607.6.2 Explain how the relative distance of objects from the earth affects how they appear.</p> <p>SPI 0607.6.3 Distinguish among a day, lunar cycle, and year based on the movements of the earth, sun, and moon.</p> <p>SPI 0607.6.4 Explain the different phases of the moon using a model of the earth, moon, and sun.</p> <p>SPI 0607.6.5 Predict the types of tides that occur when the earth and moon occupy various positions.</p> <p>SPI 0607.6.6 Use a diagram that shows</p>

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<p>http://www.ducksters.com/science/earth-science/ocean_tides.php</p>		<p>the positions of the earth and sun to explain the four seasons.</p> <p>SPI 0607.6.7 Explain the difference between a solar and a lunar eclipse.</p>
<p>Energy, Forces in Nature</p> <p>www.engr.ucr.edu/.../Kinetic and Potential Energy.ppt</p> <p>www.brainpop.com</p> <p>www.discoveryeducation.com</p> <p>www.studyisland.com</p> <p>www.teacherspayteachers.com</p> <p>www.thetech.org</p> <p>www.pbslearningmedia.org</p> <p>www.teachertube.com</p> <p>www.discovery.com/tv-shows/mythbusters</p> <p>http://wn.com/epic trick shot battle d ude perfect vs. brodie smith</p> <p>www.lessonplanet.com</p> <p>http://reviewgamezone.com/preview.php?id=81</p>	<p>6 weeks</p>	<p>SPI 0607.10.1 Distinguish among gravitational potential energy, elastic potential energy, and chemical potential energy.</p> <p>SPI 0607.10.2 Interpret the relationship between potential and kinetic energy.</p> <p>SPI 0607.10.3 Recognize that energy can be transformed from one type to another.</p> <p>SPI 0607.10.4 Explain the Law of Conservation of Energy using data from a variety of energy transformations.</p> <p>SPI 0607.12.1 Identify how simple circuits are associated with the transfer of electrical energy when heat, light, sound, and chemical changes are produced.</p> <p>SPI 0607.12.2 Identify materials that can conduct electricity.</p>
<p>Atmosphere</p> <p>http://www.weatherwizkids.com</p> <p>discoveryeducation.com</p> <p>www.weatherchannel.com</p> <p>www.kids.gov</p> <p>www.studyisland.com</p>	<p>4 weeks</p>	<p>SPI 0607.8.1 Analyze data to identify events associated with heat convection in the atmosphere.</p> <p>SPI 0607.8.2 Recognize the connection between the sun's energy and the wind.</p> <p>SPI 0607.8.3 Describe how temperature differences in the ocean account for currents. SPI 0607.8.4 Interpret</p>

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www.helpsteaching.com

www.brainpop.com

www.schoolology.com

www.sciencespot.net

www.unitedstreaming.com

www.kahoot.com

meteorological data to make predictions about the weather.