

# 4th Grade Science Pacing Guides

## Trimester 3

Time	GLECs	Resources
March/May	<p><b>Physical Science: Energy</b></p> <p>P.PM.04.33 <b>Demonstrate</b> magnetic field by observing the patterns formed with iron filings using a variety of magnets.</p> <p>P.PM.04.34 <b>Demonstrate</b> why nonmagnetic objects are affected by the strength of the magnet and the distance away from the magnet.</p> <p>P.PM.04.53 <b>Identify</b> objects that are good conductors or poor conductors of heat and electricity.</p> <p>P.EN.4.12 <b>Identify</b> heat and electricity as forms of energy.</p> <p>P.EN.04.41 <b>Demonstrate</b> how temperature can be increased in a substance by adding energy.</p> <p>P.EN.04.42 <b>Describe</b> heat as the energy produced when substances burn, certain kinds of materials rub against each other, and when electricity flows through wire.</p> <p>P.EN.04.43 <b>Describe</b> how heat is produced through electricity, rubbing, and burning.</p> <p>P.EN.04.51 <b>Explain</b> how electrical energy is transferred and changed through the use of a simple circuit.</p> <p>P.EN.04.52 <b>Create</b> a simple working electromagnet and explain the conditions necessary to make the electromagnet.</p>	<p><a href="http://www.energyquest.ca.gov/story/chapter02.html">http://www.energyquest.ca.gov/story/chapter02.html</a></p> <p><a href="http://www.energyquest.ca.gov/story/chapter04.html">http://www.energyquest.ca.gov/story/chapter04.html</a></p> <p><a href="http://www.energyquest.ca.gov/story/chapter03.html">http://www.energyquest.ca.gov/story/chapter03.html</a></p> <p><a href="http://www.sciencenetlinks.com/pdfs/renewable_actsheet.pdf">http://www.sciencenetlinks.com/pdfs/renewable_actsheet.pdf</a></p> <p>A True Book- Experiments with Electricity</p> <p>A True Book- Experiments with Sound</p> <p>A True Book- Experiments with Magnets</p>
March/May	<p><b>Science Processes: Reflection and Social Implications</b></p> <p>S.IP.04.12 <b>Generate</b> questions based on observations.</p> <p>S.IP.04.13 <b>Plan and conduct</b> simple and fair investigations.</p> <p>S.IA.04.13 <b>Communicate and present</b> findings of observations and investigations.</p> <p>S.RS.04.11 <b>Demonstrate</b> scientific concepts through various illustrations, performances, models, exhibits, and activities.</p> <p>S.RS.04.17 <b>Identify</b> current problems that may be solved through the use of technology.</p>	