

## Scope and Sequence

Subject/Title of Unit	Grade	6 Weeks	Estimated Time Frame (# of days)
IPC/Unit 5 Energy Sources	10-11	5th Six Weeks	5 weeks and 4 days
<b>TEKS/Student Expectations</b>		<b>Examples/Specifications:</b>	
<p>6 (C) analyze the efficiency of energy conversions that are responsible for the production of electricity such as from radiant, nuclear, and geothermal sources, fossil fuels such as coal, gas, oil, and the movement of water or wind;</p> <p>(D) investigate and compare economic and environmental impacts of using various energy sources such as rechargeable or disposable batteries and solar cells;</p> <p>(E) measure the thermal and electrical conductivity of various materials and explain results;</p> <p>(F) investigate and compare series and parallel circuits;</p> <p>(G) analyze the relationship between an electric current and the strength of its magnetic field using simple electromagnets; and</p>		<p>6C – analyze the efficiency of converting energy and using natural resources to convert into energy.</p> <p>6D – investigate and compare reusing energy sources verses new ones</p> <p>6 E – measure thermal and electric conductivity of various materials.</p> <p>6 F and G – Discuss the relationship between series and parallel circuits as well as the differences in strength between the two</p>	
<b>Language of Instruction:</b>		<b>Instructional Resources/Textbook Correlations:</b>	
Electric charge, current, energy, magnetism, radioactivity, nuclear decay, detecting radioactivity, nuclear reactions, fossil fuels, nuclear energy, renewable energy resources.		Textbook pg 190-288	
		<b>Weblinks/Other Resources:</b>	

<b>Evaluation/External Assessment/Local Assessment:</b>	<b>Best Instruction Timeline:</b>
Teacher/ Testbank Tests Labs and Quizzes	<ul style="list-style-type: none"> <li>2 days electric charge</li> <li>3 days electric current</li> <li>3 days electrical energy</li> <li>2 days of magnetism</li> <li>2 days electricity and magnetism</li> <li>4 days producing electric current</li> <li>1 day radioactivity</li> <li>1 day nuclear decay</li> <li>2 days detecting radioactivity</li> <li>3 days nuclear reactions</li> <li>2 days fossil fuels</li> <li>1 day nuclear energy</li> <li>3 days renewable energy sources</li> </ul>