## Physical Science (Electromagnetism)Grade 8 ScienceGrade 8 Science

Grade 8 Science Grade 8 Science Start Date: May 05, 2014 End Date : May 23, 2014

Unit Overview	Content Elaborations	Unit Desources
Unit Overview This topic focuses on forces and motion within, on and around the Earth and within the universe.	Content Elaborations A field model can be used to explain how two o touching. An object is thought to have a region When a second object with an appropriate prope force on and can cause changes in the motion of Electric fields exist around objects with charge. field, the two objects experience electric forces the charges involved. Electric force weakens rap Magnetic fields exist around magnetic objects. I field, the two objects experience magnetic force the objects involved. Magnetic force weakens rap lines can be seen when iron filings are sprinkled	Unit Resources Textbook: Chapter 18 Study Island Enrichment Gizmo Lab: <b>Electromagnetic Induction</b> Gizmo Lab <b>: Magnetism</b>
Magnet Magnet Pole Magnetic Force Electromagnetism	Forces between objects act when the objects are in direct contact or when they are not touching.	Connections
Electromagnet Solenoid Electric Motor Electromagnetic Induction Electric Generator Transformer	Magnetic, electrical and gravitational forces can act at a distance.	

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## Standards

Student Assessment	Unit Refection	
Electromagnetism		]
Content	Skills	Assessment
A. Electromagnetism	<ul> <li>A. Electromagnetism <ol> <li>Describe the properties of magnets</li> <li>Explain why some materials are magnetic and some are not</li> <li>Describe kinds of magnets</li> <li>Give two examples of the effect of Earth's magnetic field</li> <li>Identify the relationship between an electric current and a magnetic field</li> <li>Describe an electromagnet</li> <li>Describe how electromagnetism is involved in the operation of doorbells, electric motors, etc.</li> <li>Explain how a magnetic field can make an electric current</li> <li>Explain how electromagnetic induction is used in a generator</li> </ol> </li> </ul>	