

Argenta-Oreana Middle School
7th Exploratory (Rotation)

Date Semester	IL Learning Standards	Unit and/or Essential Question Content and/or Skills	Assessments and/or Products
4.5 Weeks per Quarter (Rotation)	<p>11.A.3a</p> <p>11.A.3c</p> <p>11.A.3d Explain the existence of unexpected results in a data set.</p> <p>11.A.3e Use data manipulation tools and quantitative (e.g., mean, mode, simple equations) and representational methods (e.g., simulations, image processing) to analyze measurements.</p> <p>11.A.3f Interpret and represent results of analysis to produce findings.</p> <p>11.A.3g Report and display the process and results of a scientific investigation.</p>	<p>The inquiry process prepares learners to engage in science and apply methods of technological design. This understanding will enable students to pose questions, use models to enhance understanding, make predictions, gather and work with data, use appropriate measurement methods, analyze results, draw conclusions based on evidence, communicate their methods and results, and think about the implications of scientific research and technological problem solving.</p>	<p>Students will: Work with a small group of your fellow students to design and build a device, a rubber band-powered car. The goal being for your group's car is to go the greatest distance.</p> <p><u>Measurement Activity</u>-work in cooperative groups to measure the angle, mass, length, weight, volume, temperature and density.</p> <p>Formulate hypotheses that can be tested by collecting data</p> <p>Collect and record data accurately using consistent measuring and recording techniques and media.</p>
September	<p>11.B.3c Select the most appropriate design and build a prototype or simulation.</p> <p>11.B.3d Test the prototype using available materials, instruments and technology and record the data.</p>		

**Argenta-Oreana Middle School
7th Exploratory (Rotation)**

Date Semester	IL Learning Standards	Unit and/or Essential Question Content and/or Skills	Assessments and/or Products
	<p>11.B.3e Evaluate the test results based on established criteria, note sources of error and recommend improvements.</p> <p>11.B.3f Using available technology, report the relative success of the design based on the test results and criteria.</p>		
October			
November			
December			
January			
February			
March			
April			
May			