| Big Idea:  |
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| Inquiry Questions |
| Science:Technology/Engineering:Mathematics:Social Studies: |
| Content Area | Grade Level Standards |
| Science  |  |
| Technology & Engineering |  |
| Mathematics |  |
| Social Studies |  |
| ELA |  |

| Science Process Standards  | Standards for Mathematical Practice |
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| Science Process Standards*Nature of Science*[ ] Make predictions and formulate testable questions.[ ] Design a fair test. [ ] Plan and carry out investigations—often over a period of several lessons—as a class, in small groups or independently. [ ] Perform investigations using appropriate tools and technologies that will extend the senses.[ ] Use measurement skills and apply appropriate units when collecting data.[ ] Test predictions with multiple trials. [ ] Keep accurate records in a notebook during investigations and communicate findings to others using graphs, charts, maps and models through oral and written reports.[ ] Identify simple patterns in data and propose explanations to account for the patterns.[ ] Compare the results of an investigation with the prediction. *Design Process*[ ] Identify a need or problem to be solved.[ ] Brainstorm potential solutions.[ ] Document the design throughout the entire design process.[ ] Select a solution to the need or problem.[ ] Select the most appropriate materials to develop a solution that will meet the need.[ ] Create the solution through a prototype.[ ] Test and evaluate how well the solution meets the goal.[ ] Evaluate and test the design using measurement. |  Mathematical Practices[ ] MP.1. Make sense of problems and persevere in solving them.[ ] MP.2. Reason abstractly and quantitatively.[ ] MP. 3 Construct viable arguments and critique the reasoning of others.[ ] MP.4. Model with mathematics.[ ] MP.5. Use appropriate tools strategically.[ ] MP.6. Attend to precision.[ ] MP.7 Look for and make use of structure.[ ] MP. 8 Look for and express regularity in repeated reasoning. |

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| **Plan of Work** |
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| Common Misconceptions  |
| What misconceptions might students have with these ideas? |
| Suggested Activities |
|  |
| Suggested Vocabulary |  |
| Resources |  |
| Assessment |
| Type of Assessment | Example |
| [ ] Observation |  |
| [ ] Oral Questioning |  |
| [ ] Exit Slip |  |
| [ ] Journal |  |
| [ ] Graphic Organizers |  |
| [ ] Self-Assessment |  |
| [ ] Writing Prompt |  |
| [ ] Presentation |  |
| [ ] Electronic media |  |
| [ ] Think Pair Share |  |
| [ ] Whiteboards |  |
| [ ] Experiment/projects |  |
| [ ] Quiz |  |
|[ ]   |
|[ ]   |
|[ ]   |