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| **Strand 1: Inquiry Process**  **Concept 2: Scientific Testing (Investigating & Modeling)** | **S1C2PO1** Demonstrate safe behavior & appropriate procedures (e.g.: use & care of technology, materials, organisms) in all science inquiry.  **M** | I will practice safety when working on science projects. | Knowledge  Application |  | Appropriate Procedure  Safety  Goggles |
| Strand 1: Inquiry Process  Concept 2: Scientific Testing (Investigating & Modeling) | **S1C2PO2**  Plan a simple investigation that identifies the variables to be controlled.  **M** | I will plan a simple investigation where there is a controlled variable. | Knowledge  Comprehension  Application | Science materials kit | Controlled Variable |
| Strand 1: Inquiry Process  Concept 2: Scientific Testing (Investigating & Modeling) | **S1C2PO3** Conduct controlled investigations (e.g.: related to erosion, plant life cycles, weather, magnetism) in life, physical, & Earth & space sciences.  **M** | I will conduct a controlled investigation that explains processes involving Life, Earth, Physical, and Space Science. | Knowledge  Comprehension  Application | Science materials kit | Conduct investigation, Life Science, Physical Science, Earth & Space Science |
| Strand 1: Inquiry Process  Concept 2: Scientific Testing (Investigating & Modeling) | **S1C2PO4** Measure using appropriate tools (e.g.: ruler, balance) & units of measure (i.e.: metric, U.S. customary).  **M** | I will measure using the tools (ruler, calculator, scale) needed to complete an experiment. | Knowledge  Application | Science materials kit, ruler, (metric, U.S., customary), balance, weights | Scale  Ruler  Conversion formulas for standard to metric & vice versa |
| Strand 1: Inquiry Process  Concept 2: Scientific Testing (Investigating & Modeling) | **S1C2PO5** Record data in an organized & appropriate format (e.g.: t-chart, table, list, written log).  **M** | I will record all data in my science log using charts & notes. | Knowledge  Comprehension | Graph paper  Data collected  log | Organize data  t-chart  table  graphs  charts |
| **Strand 1: Inquiry Process**    **Concept 3: Analysis & Conclusions** | **S1C3PO1**: Analyze data obtained in a scientific investigation to identify trends.  **M** | I will analyze collected data to see what changes happened and identify trends. | Knowledge  Comprehension  Analysis |  | Analyze  Trend  Obtain  Formulate  Data  Identify |
| Strand 1: Inquiry Process    Concept 3: Analysis & Conclusions | **S1C3PO2**: Formulate conclusions based upon identified trends in data.  **M** | I will analyze collected data to help me make a good guess at what will happen at the end | Knowledge Comprehension  Synthesis | t-charts, graphs, tables, lists, written log | Conclusions  Formulate  Trends |
| Strand 1: Inquiry Process    Concept 3: Analysis & Conclusions | **S1C3PO3**: Determine that data collected is consistent with the formulated question.  **M** | I will determine that data collected matches the question. | Analysis  Evaluation |  | Determine  Consistent  Data  Formulated question |
| Strand 1: Inquiry Process    Concept 3: Analysis & Conclusions | **S1C3PO4**: Determine whether the data supports the prediction for an investigation.  **M** | I will determine whether the collected data matches my prediction. | Analysis  Evaluation |  | Prediction for an investigation  Support |
| Strand 1: Inquiry Process    Concept 3: Analysis & Conclusions | **S1C3PO5**: Develop new questions & predictions based upon the data collected in the investigation.  **M** | I will create new questions from the collected data. | Knowledge  Comprehension  Application  Synthesis |  | Develop new questions |
| **Strand 1: Inquiry Process**  **Concept 4: Communications** | **S1C4PO1** Communicate verbally or in writing the results of an inquiry.  **M** | I will present to my classmates the results of my investigation. | Knowledge  Comprehension | T-charts, graphs, tables, lists, written log | Communicate  Inquiry  Present |
| Strand 1: Inquiry Process  Concept 4: Communications | **S1C4PO2** Choose an appropriate graphic representation for collected data: bar graph, line graph, Venn diagram, model.  **M** | I will determine which graph to present my data (bar & line graph, Venn diagram). | Knowledge  Comprehension  Application | T-charts, graphs, tables, lists, written log | Graphic representation  Venn-diagram |
| Strand 1: Inquiry Process  Concept 4: Communications | **S1C4PO3** Communicate with other groups or individuals to compare the results of a common investigation.  **M** | I will communicate the results of my investigation with peers. | Knowledge  Comprehension | Results from investigation | Compare  Common  Investigation |
| **Strand 6: Earth and space Science**  **Concept 3: Changes in the Earth and Sky** | **S6C3PO1** Identify the sources of water within an environment (e.g., ground water, surface water, atmospheric water, glaciers)  **M** | I will identify the sources of water within an environment | Knowledge  Comprehension | Science Text 314, 322-333  World Map | Identify, environment, ground water, surface water, atmospheric water, glaciers |
| Strand 6: Earth and space Science  Concept 3: Changes in the Earth and Sky | **S6C3PO2** Describe the distribution of water on the Earth’s surface  **M** | I will describe the distribution of water on the Earth’s surface | Knowledge  Comprehension  Application | Visual-globe  Science text 204-207 | Describe, distribution, Earth’s surface |
| Strand 6: Earth and space Science  Concept 3: Changes in the Earth and Sky | **S6C3PO3** Differentiate between weather and climate as they relate to the Southwestern United States  **M** | I will differentiate between weather and climate as they relate to the Southwestern United States | Knowledge  Comprehension | Internet research for weather, Science text 236-245, 307-355, 344-353 | Differentiate, climate, weather, relate,  Southwest |
| Strand 6: Earth and space Science  Concept 3: Changes in the Earth and Sky | **S6C3PO4** Measure changes in weather (e.g., precipitation, wind speed, barometric pressure)  **M** | I will measure changes in weather (precipitation, wind, speed, barometer) | Knowledge  Comprehension  Application  Evaluation | Science text R2, R6, 318-319, 531, Gallup Independent weather maps | Barometer, precipitation, wind speed, barometer, anemometer, spectrometer, rain gauge |
| Strand 6: Earth and space Science  Concept 3: Changes in the Earth and Sky | **S6C3PO5** Interpret the symbols on a weather map or chart to identify the following: temperatures, fronts, precipitation  **M** | I will interpret the symbols on a weather map or chart to identify temperatures, fronts, and precipitation | Knowledge  Comprehension  Evaluation | Science text R2, R6, 318-319, 531, Gallup Independent weather maps | Interpret, weather symbols, weather maps, temperature maps, weather map fronts, weather map precipitation |
| Strand 6: Earth and space Science  Concept 3: Changes in the Earth and Sky | **S6C3PO6** Compare weather conditions in various locations (regions of Arizona, various U.S. cities, coastal vs. interior geographical regions).  **M** | I will compare weather conditions in various locations | Knowledge  Comprehension  Analysis | Internet research for regions in Arizona, U.S. cities, costal and interior geographical regions  See website  <http://www.weather.gov/> | Compare, regions, costal, interior, geographical regions |