

| Grade 6 Science | | Science Fair Interact, Planetary Science | | |
|-----------------|-------------------------------|---|---|----------------------------------|
| | | | Earth History, Catastrophic Events | |
| <i>Timeline</i> | <i>Content / concept</i> | <i>Grade Level Expectations</i> | <i>Skills</i> | <i>Resources</i> |
| Sept.-Oct. | | | | Science teacher's investigations |
| | inquiry and scientific method | 2.1.1 understand how to generate a question | generate questions | |
| | | 2.1.2 plan and conduct investigations | plan experiment, predict, list materials, gather tools, identify variables, record and organize data, make charts, graph, conduct multiple trials | |
| | | 2.1.3 apply how to construct scientific explanation | practice listing facts and inferences, write conclusions, explaining predictions and reasoning | |
| | | 2.1.4 analyze how models used | build models, discuss how some models are more useful than others | |
| | | 2.1.5 apply understanding to report explanations | summarize and present group investigations and individual project | Science |
| | nature of scientific inquiry | 2.2 nature of science and understand the nature of scientific inquiry | identify observations vs. inferences, analyze inconsistent results, determine how these results can be explained, apply honesty when conducting investigations, understand increased comprehension leads to new inquiry | |
| | design solutions | 3.1 analyze problems and design solutions, analyze multiple solutions | | group in science project, i |
| Nov.-Jan. | | | | Planetary |
| | | 1.1 understand how properties are used to identify, describe and categorize substances, materials and objects | | |
| | structure | 1.2 understand how components, structures, organization and interconnections between systems | | |
| | classification | | classify rocks, air | |
| | measurement | | measure density | teacher's |
| | graphing | | Earth, Moon, sun, comets, | all invest |

| | | | | |
|-------------|--|--|-------------------------------|-----------------------------|
| | | | meteors, orbits | all quizzes |
| | | | | observational |
| | | | | checklist |
| | | | | videos in Mankind |
| | | | describe layers of atmosphere | Bill Nye |
| Dec. | human growth | | | Human Development |
| | decision making | | | HIV prevention |
| | immune system | | | |
| Feb, - Apr, | | | | FOSS E |
| | change | 1.3 understand how interactions within and among systems cause changes in matter and energy | | |
| | | | | most interactive |
| | classify | 1.1.5 how to classify rocks, soils | create soils, landforms | videos in erosion) |
| Apr. | interrelatedness of science and technology | 3.2.3 analyze use of science, math and technology within occupational/career area of interest | | |
| | | 3.2.2 analyze how science supports technological development and vice versa | | |
| | | 3.2.1 analyze how science and technology have been developed, used and affected by many diverse individuals, cultures and societies throughout history | | |
| | | | | Famous report |
| | | 3.2.4 analyze how human societies' use of natural resources affects the quality of life and the health of ecosystems | | |
| May-June | | | | Padilla E |
| May-June | | | | STC Cat Kit |
| | | | | selected |
| | | | | videos: weather, hurricanes |

| | | | | |
|------|-------------------------------|--|---|-----------------------------|
| | weather | 1.3.6 analyze relationship between weather and climate and how ocean currents and global atmospheric circulations affect weather and climate | | |
| | climate | | | |
| | energy transfers | 1.2.2 understand how various factors affecting energy transfers, energy can be transferred from one form to another | | |
| | forms of energy | 1.1.4 understand that energy is a property of matter and comes in many forms | | |
| June | scientific method | | | Grade 6 |
| | | | | PROJEC |
| | inquiry and scientific method | 2.1.1 understand how to generate a question | generate questions | |
| | | 2.1.2 plan and conduct investigations | plan experiment, predict, list materials, gather tools, identify variables, record and organize data, make charts, graph, conduct multiple trials | |
| | | 2.1.3 apply how to construct scientific explanation | practice listing facts and inferences, write conclusions, explaining predictions and reasoning | |
| | | 2.1.4 analyze how models used | build models, discuss how some models are more useful than others | |
| | | 2.1.5 apply understanding to report explanations | summarize and present group investigations and individual project | |
| | nature of scientific inquiry | 2.2 nature of science and understand the nature of scientific inquiry | identify observations vs. inferences, analyze inconsistent results, determine how these results can be explained, apply honesty when conducting investigations, understand increased comprehension leads to new inquiry | |
| | design solutions | 3.1 analyze problems and design solutions, analyze multiple solutions | | group in science project, i |