

Appendix C

Interdisciplinary and
21st Century Integration

K-5

**CROSS-CURRICULAR INTEGRATION WITH SCIENCE: Standard 5
Grades K-5**

	Lang. Arts Standard 5	Math Standard 5	Social Studies Standard 6	Technology Standard 8
K	Use leveled readers to extend learning through fiction and nonfiction selections	Compare the rise and fall in daily and seasonal temperature	Identify and locate warmer and colder regions of the earth on a map and/or globe	Use a thermometer to read and record daily temperature
1	Use leveled readers to extend learning through fiction and nonfiction selections	Patterns and Algebra as related to Astronomy and Space	Discuss how our surroundings help meet our basic needs through a discussion local community	Select and use simple tools and materials to complete a task Make a plan in order to design a solution to a problem.
2	Use leveled readers to extend learning through fiction and nonfiction selections	Data Analysis and Probability as related to Earth Science	Associate various plants and animals with various parts of the world using a map and/or globe	Describe a toy or other familiar object as a system with parts that work together
3	Use leveled readers to extend learning through fiction and nonfiction selections	Geometry and Measurement as related to Technology	Locate bodies of water on a map and/or globe	Demonstrate how measuring instruments are used to gather information in order to design things that work properly Describe a product or device in terms of the problem it solves or the need it meets. Choose materials most suitable to make simple mechanical constructions. Use the design process to identify a problem, look for ideas, and develop and share solutions with others
4	Use leveled readers to extend learning through fiction and nonfiction selections	5.3.4 A Numerical Operations as related to Physics	Locate the San Andreas Fault and Grand Canyon on a map	Distinguish between things that occur in nature and those that have been designed to solve human problems
5	Use leveled readers to extend learning through fiction and nonfiction selections	Numerical Operations as related to Astronomy and Space	Discuss the impact that astronomy had on the early calendars (Egyptian, Roman and Julian) and compare/contrast to our modern calendar	Identify the basic components of a technological system: input, process, output, feedback

**CROSS-CURRICULAR INTEGRATION WITH SCIENCE: Standard 5
Supplemental Content Areas**

Music and Art Standard 1	World Language Standard 7	Physical Education Standard 2	Career Education Standard 9
<p align="center">Grades K-3 Use painting, drawing and 3-D models to depict scientific phenomena</p>	<p align="center">Grades K-3 Display and read cognate posters as vocabulary is connected to appropriate units</p>	<p align="center">Grades K-3 Explore the impact of exercise on heart rate</p>	<p align="center">Grades 1-8 Explore various scientific career options through discussions of scientists and their contributions</p>
<p align="center">Grades 4-8 Investigate acoustics, timbre and pitch</p>	<p align="center">Grades 4-8 Discuss how technical terms are derived from roots in foreign languages</p>	<p align="center">Grades 4-8 Explore energy change, force and motion</p>	