



The activities in this book are keyed to the Sunshine State Standards.

Suggested Grade Levels:

- Grades 3-5 should be able to read much of the text and do many of the activities independently.
- Grades 6-8 should be able to read all of the text and do the activities independently.
- Younger children can enjoy many parts of the book such as coloring and connecting the dots.

Reading / Language Arts

Vocabulary Development: *The student uses multiple strategies to develop grade-appropriate vocabulary.*

- LA.3-8.1.6.1 The student uses new vocabulary that is introduced and taught directly.
- LA.3-8.1.6.3 The student uses context clues to determine meanings of unfamiliar words.
- LA.3-8.1.6.5 The student relates new vocabulary to familiar words.

Reading Comprehension: *The student uses a variety of strategies to comprehend grade level text.*

- LA.3-8.1.7.1 The student uses background knowledge to make predictions.

Nonfiction: *The student identifies, analyzes, and applies knowledge of the elements of a variety of informational texts.*

- LA.3-8.2.2.1 The student analyzes text features.
- LA.3-8.2.2.2 The student uses information from the text to answer questions.

Communication - Listening and Speaking (if speaker is present when book is used):

- LA.3-8.5.2.1 The student will listen to information presented orally and show an understanding of key points
- LA.4.5.2.3 The student will listen attentively to speakers and take notes as needed to ensure accuracy of information.
- LA.4.5.2.4 The student will ask questions of speakers.

Informational Text: *The student comprehends informational text that is part of our day to day experiences.*

- LA.3-8.6.1.1 The student will read informational text and organize information to perform a task.

Research Process: *The student uses a systematic process for collection, processing and presentation of information.*

- LA.3.6.2.1 The student determines information needed for a search by identifying key words.

Science

Earth and Space Science

Big Idea 6: Earth Structures

- SC.4.E.6.5 Investigate how technology and tools help to extend the ability of humans to observe very small things and very large things.
- SC.7.E.6.6 Identify the impact humans have had on the Earth.

Nature of Science

Big Idea 4: Science and Society

- SC.8.N.4.2 Explain how political, social and economic concerns can affect science, and vice versa.

Big Idea 9: Changes in Matter

- SC.8.P.9.3 Investigate and describe how temperature influences chemical changes.

Physical Science

Big Idea 10: Forms of energy (Waste-to-Energy facility)

- SC.3-5.P.10.1 Identify some basic forms of energy.
- SC.3-5.P.10.2 Recognize that energy has the ability to cause motion or create change.

Big Idea 11: Energy Transfer and Transformations

- SC.7.P.11.1 Recognize that adding heat to or removing heat from a system may result in a temperature change.

Life Science

Big Idea 17: Interdependence

- SC.4.L.17.4 Recognize ways that plants and animals, including humans, can impact the environment.

Social Studies

Geography, Standard 5: *Understand how human actions can impact the environment.*

- SS.8.G.5.1 Describe human dependence on the physical environment and natural resources to satisfy basic needs in local environments in the United States.