# <u>Using NSTA/CBC Outstanding Science Trade Books</u> <u>in North Carolina Elementary and Middle Grades Classrooms:</u>

Correlating National Science Teachers Association/Children's Book Council
Outstanding Science Trade Book Award Winners (2004-2010)
to the National Science Education Standards (K-12)
and the North Carolina Science Standard Course of Study Goals (K-8)

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#### IX. Introduction

Since the spring of 2007 Western Carolina University has partnered with Asheville City and Yancey County Schools in NC Quest Project 2020. This effort focuses on improving science education in grades 3-8 and on integrating curriculum in authentic ways. One important aspect of this work is connecting reading to science.

During the 2008-2009 school year, an elementary science Professional Learning Community (PLC) was formed in Asheville City Schools (ACS). The PLC includes teachers from each of the school system's five elementary schools, the ACS instructional coach who leads the science education professional development, and faculty from Western Carolina University. Throughout the year there was continual, significant interest in identifying and using trade books that support the North Carolina Science Standard Course of Study.

One important resource for choosing quality science trade books is the National Science Teachers Association/Children's Book Council Outstanding Science Trade Book (OSTB) list published each March. The NSTA/CBC review panel reads and carefully evaluates hundreds of books each year in order to identify the best that have been published and to make these titles available to teachers. However, on several occasions PLC members have noted that it is time consuming and cumbersome to read through each article, year by year, searching for texts that match the needs of teachers and their students. This is the need being addressed in this project.

#### <u>Goal</u>

Quality elementary and middle grades science instruction in Asheville City and Yancey County Schools through meaningful integration of science and literacy.

#### Objectives

To provide K-8 teachers with:

- 1. A succinct summary of research related to using science trade books in elementary and middle grades education.
- 2. A ready to use master list of the outstanding science trade books published in the past five years. This list is organized by grade spans (K-2, 3-5, 6-8, 9-12) and by the Content Standards from the National Science Education Standards.
- 3. A ready-to-use list of well researched, high quality science trade books correlated to the North Carolina Standard Course of Study by grade level.
- 4. A list of additional resources to assist with identifying science-related trade books.
- 5. A list of additional resources to assist with using science-related trade books.

#### **Document Organization**

In the five sections that follow, each of the stated objectives is directly addressed.

#### II. Related Science Trade Book Research

Elementary and middle grades teachers need to create opportunities for their students which mirror the authentic reading work of scientists (Yore, Bisanz, & Hand, 2003; Saul, 2004). Science adds to literacy by giving meaning and purpose; literacy adds to science by providing a lens for focus and clarification (Their, 2002). While textbooks have traditionally been used to teach science, textbooks are not enough to prepare students for the diversity of science writing they will encounter (Yore et al., 2003). We need to engage students in a range of science reading and writing opportunities, and well-selected books intended for general readership, commonly called trade books, can play an important role in work towards scientific literacy.

Trade books in science include a wide array of both fiction and nonfiction and consequently can be used for a broad range of purposes. Within the field of science education trade books can:

- 1. Introduce concepts, engage students, and begin inquiry (Fredericks, 2003; Rice, Dudley, & Williams, 2001).
- 2. Expand upon ideas during and after hands-on exploration and inquiry (Fredericks, 2003; Rice, Dudley, & Williams, 2001).
- 3. Help students learn about science from the perspectives of practicing scientists, show how scientists use reading and writing in their work, portray the excitement and complexity of science inquiry, and reflect the dedication of practitioners (Melber, 2003; Buxton & Austin, 2003).
- 4. Help us discuss the nature of science including accuracies and inaccuracies, the tentative nature of information, and the need to verify information (Akerson, 2001; Rice, Dudley, & Williams, 2001).
- 5. Develop the content knowledge of teachers (Akerson, 2001).

Of course science trade books naturally fit into literacy education in multiple ways as well. They can be used throughout a balanced literacy program in components such as independent reading, guided reading, shared reading, read aloud, genre study, and writing workshop (Akerson, 2001; Fredericks, 2003; Harms & Lettow, 2000; Holliday, 2003; Sauls, Reardon, Pearce, Dieckman, & Neutze, 2002).

However, we need to carefully select books to use in our classrooms (Buxton & Austin, 2003; Rice, 2002). Buxton and Austin (2003) only found 32 books out of hundreds searched that met the criteria of showing science as an active process of inquiry and including scientists that reflect the image of real people engaged in science. Trade books have been found to include inaccurate information in texts, drawings, and artwork—both implicitly and explicitly (Rice, 2002). Some books put science inaccuracies and facts next to each other in order to point out misconceptions yet Mayer (1995) has shown in these situations students sometimes remember the inaccurate information instead of the correct facts.

In light of these concerns, the NSTA/CBC Outstanding Science Trade Book lists are a valuable resource for identifying quality books. All awardees have been carefully evaluated to ensure that they contain

substantial, accurate, up-to-date science content that is developmentally appropriate and that is presented in an engaging manner (Bricker et al., 2009). Selected books are also screened for gender, ethnic, and socioeconomic biases.

It is important to note that while there is great value in integrating curriculum, interdisciplinary instruction alone is not enough (Akerson, 2001). We need discipline specific instruction, cannot just read and write science, and cannot focus all our reading and writing on science content. We need to provide opportunities to explore and investigate science and need to read and write on a range of topics.

# III. NSTA/CBC Outstanding Science Trade Books for Students in Grades K-12, Books Published from 2004-2010, Organized by Grade Levels and NSES Content Standards

Note: Many books fit into multiple content standards. For efficiency, books are listed under the one content category that is most relevant to the North Carolina Standard Course of Study. In this section grade level recommendations come directly from the Outstanding Science Trade Book lists published by NSTA and consequently some books are listed in more than one grade span. Grade levels are intended to be guidelines and not restrictions. When looking for texts for any topic, it is recommended that you look across the content standards. Full annotations for the texts can be found at: <a href="http://www.nsta.org/publications/ostb/">http://www.nsta.org/publications/ostb/</a>

| National Science   | K-2                      | 3-5                              | 6-8                              | 9-12                       |
|--------------------|--------------------------|----------------------------------|----------------------------------|----------------------------|
| Content Standards  | K-Z                      | 3-3                              | 0-8                              | 9-12                       |
|                    | Just One Bite. Lola M.   | Growing Patterns. Sarah C.       | Growing Patterns. Sarah C.       | If Stones Could Speak:     |
|                    | Schaefer. 2010.          | Campbell. 2010.                  | Campbell. 2010.                  | Unlocking the Secrets of   |
|                    |                          |                                  |                                  | Stonehenge. Marc Aronson   |
|                    |                          | Just One Bite. Lola M.           | If Stones Could Speak:           | with Mike Parker Pearson   |
|                    |                          | Schaefer. 2010.                  | Unlocking the Secrets of         | and the Riverside Project. |
|                    |                          |                                  | Stonehenge. Marc Aronson         | 2010.                      |
| Unifying Concepts  |                          | Neo Leo: The Ageless Ideas of    | with Mike Parker Pearson and     |                            |
| and Processes in   |                          | Leonardo da Vinci. Gene          | the Riverside Project. 2010.     |                            |
| Science            |                          | Barretta. 2009.                  |                                  |                            |
| Science            |                          |                                  | Neo Leo: The Ageless Ideas of    |                            |
|                    |                          | S is for Scientists: A Discovery | Leonardo da Vinci. Gene          |                            |
|                    |                          | Alphabet. Larry Verstraete.      | Barretta. 2009.                  |                            |
|                    |                          | 2010.                            |                                  |                            |
|                    |                          |                                  | S is for Scientists: A Discovery |                            |
|                    |                          |                                  | Alphabet. Larry Verstraete.      |                            |
|                    |                          |                                  | 2010.                            |                            |
| Physical Science   | I Fall Down. Vicki Cobb. | The Story of Snow: <i>The</i>    | Atomic Universe: The Quest to    | Car Science. Richard       |
| (Properties of     | 2004.                    | Science of Winter's Wonder.      | Discover Radioactivity. Kate     | Hammond. 2008.             |
| Objects, States of |                          | Mark Cassino, with Jon           | Boehm Jerome. 2006.              |                            |
| Matter, Sound,     | Newton and Me. Lynne     | Nelson. 2009.                    |                                  | Cool Stuff Exploded. Chris |

| Electricity &      | Mayer. 2010.             |                              | Car Science. Richard             | Woodford. 2008.              |
|--------------------|--------------------------|------------------------------|----------------------------------|------------------------------|
| •                  | iviayer. 2010.           |                              | Hammond. 2008.                   | W0001010. 2008.              |
| Magnetism, Force   |                          |                              | naililliolla. 2008.              | Linus Dauling: Advancing     |
| & Motion, Energy,  |                          |                              | Cool Struff Francisco            | Linus Pauling: Advancing     |
| Chemistry)         |                          |                              | Cool Stuff Exploded. Chris       | Science, Advocating Peace.   |
|                    |                          |                              | Woodford. 2008.                  | Naomi Pasachoff. 2004.       |
|                    |                          |                              | The Flores is Miles Ve Beell     | Maria Caria Tha Wassa        |
|                    |                          |                              | The Elements: What You Really    | Marie Curie: The Woman       |
|                    |                          |                              | Want to Know. Ron Miller.        | Who Changed the Course       |
|                    |                          |                              | 2005.                            | of Science. Philip Steele.   |
|                    |                          |                              |                                  | 2006.                        |
|                    |                          |                              | Marie Curie: A Brilliant Life.   |                              |
|                    |                          |                              | Elizabeth MacLeod. 2004.         | Rockets. Ron Miller. 2007.   |
|                    |                          |                              |                                  |                              |
|                    |                          |                              | Rockets. Ron Miller. 2007.       |                              |
|                    |                          |                              | 6                                |                              |
|                    |                          |                              | Something Out of Nothing:        |                              |
|                    |                          |                              | Marie Curie and Radium. Carla    |                              |
|                    |                          |                              | Killough McClafferty. 2006.      |                              |
|                    |                          |                              | TI 6: 56 TI 6:                   |                              |
|                    |                          |                              | The Story of Snow: The Science   |                              |
|                    |                          |                              | of Winter's Wonder. Mark         |                              |
|                    |                          |                              | Cassino, with Jon Nelson. 2009.  |                              |
|                    |                          |                              | _,,                              |                              |
|                    |                          |                              | The Ultimate Weapon: The         |                              |
|                    |                          |                              | Race to Develop the Atomic       |                              |
|                    |                          |                              | Bomb. Edward T. Sullivan.        |                              |
| l o o              |                          |                              | 2007.                            |                              |
| Earth & Space      | Earth: Feeling the Heat. | Big Alaska: Journey Across   | Are We Alone? Scientists         | The Big Bang. Paul Fleisher. |
| Science (Soils,    | Brenda Z. Guiberson.     | America's Most Amazing       | Search for Life in Space. Gloria | 2005.                        |
| Rocks & Minerals,  | 2010.                    | State. Debbie S. Miller.     | Skurzynski. 2004.                | 5 1: 6 11 1                  |
| Landforms,         | Develor Coulty M         | 2006.                        | Bis Alaska Isaaca Assa           | Bodies from the Ices:        |
| Weather & Climate, | Reaching for the Moon.   | Community Bullion            | Big Alaska: Journey Across       | Melting Glaciers and the     |
| Atmosphere,        | Buzz Aldrin. 2005.       | Cars on Mars: Roving the Red | America's Most Amazing State.    | Recovery of the Past.        |
| Hydrosphere,       |                          |                              | Debbie S. Miller. 2006.          | James M. Deem. 2008.         |

| Cycling of Matter, | Planet. Alexandra Siy. 2009.   | Bodies from the Ices: Melting  | Cars on Mars: Roving the    |
|--------------------|--------------------------------|--------------------------------|-----------------------------|
| Solar System,      | Trainet. Alexandra Siy. 2003.  | Glaciers and the Recovery of   | Red Planet. Alexandra Siy.  |
| Evolution of       | Close to the Wind: The         | the Past. James M. Deem.       | •                           |
| Landforms)         | Beaufort Scale. Peter          | 2008.                          | 2009.                       |
| Landioinis         | Malone. 2007.                  | 2006.                          |                             |
|                    | Widione. 2007.                 | Cars on Mars: Roving the Red   | Earth Heroes: Champions     |
|                    | Come See the Earth Turn:       | ~                              | of Wild Animals. Bruce and  |
|                    | The Story of Léon Foucault.    | Planet. Alexandra Siy. 2009.   | Carol Manor. 2010.          |
|                    | Lori Mortensen. 2010.          |                                |                             |
|                    | LOTT MOTTERISETT. 2010.        | Cave Sleuths. Laurie Lindop.   | Map: Satellite. DK          |
|                    | Diagram Adam An America        | 2005.                          | Publishing. 2007.           |
|                    | Dinosaur Atlas: An Amazing     |                                |                             |
|                    | Journey Through a Lost         | Come See the Earth Turn: The   | Moon Landing. Richard       |
|                    | World. John Malam & John       | Story of Léon Foucault. Lori   | Platt. 2008.                |
|                    | Woodward. 2006.                | Mortensen. 2010.               |                             |
|                    |                                |                                | Over the Coasts: An Aerial  |
|                    | Dinosaur Mountain: Digging     | Dinosaur Atlas: An Amazing     | View of Geology. Michael    |
|                    | Into the Jurassic Age.         | Journey Through a Lost World.  | Collier. 2009.              |
|                    | Deborah Kogan Ran. 2010.       | John Malam & John              |                             |
|                    |                                | Woodward. 2006.                | Over the Mountains: An      |
|                    | Erased by a Tornado! Jessica   |                                | Aerial View of Geology.     |
|                    | Rudolph. 2010.                 | Dinosaur Mountain: Digging     | Michael Collier. 2007.      |
|                    |                                | Into the Jurassic Age. Deborah | Wildinger Comercial 2007.   |
|                    | Global Warming. Seymour        | Kogan Ran. 2010.               | Over the Rivers: An Aerial  |
|                    | Simon. 2010.                   | Nogan Nam 2010.                | View of Geology. 2008.      |
|                    |                                | Diving to a Deep-Sea Volcano   | view of deology. 2008.      |
|                    | Global Warming and the         | (Scientists in the Field.)     | Plate Tectonics. Rebecca L. |
|                    | Dinosaurs: Fossil Discoveries  | Kenneth Mallory. 2006.         |                             |
|                    |                                | Kermeth Manory. 2000.          | Johnson. 2005.              |
|                    | at the Poles. Caroline Arnold. | Forth Harassi Champions of     |                             |
|                    | 2009.                          | Earth Heroes: Champions of     | Stephen Hawking: Breaking   |
|                    |                                | Wild Animals. Bruce and Carol  | the Boundaries of Time and  |
|                    | I Dreamed of Flying Like a     | Manor. 2010.                   | Space (Great Minds of       |
|                    | Bird: My Adventure             |                                | Science). 2005.             |
|                    | Photographing Wild Animals     | Erased by a Tornado! Jessica   |                             |
|                    |                                | Rudolph. 2010.                 | The Story of Science:       |

| From a Helicopter. Robert B. | Erosion: How Land Forms, How         | Einstein Adds a New   |
|------------------------------|--------------------------------------|-----------------------|
| Haas. 2010.                  | It Changes. Darlene R. Stille.       | Dimension. Joy Hakim. |
| 11443. 2010.                 | 2005.                                | 2007.                 |
| Moon Landing. Richard Platt. |                                      |                       |
| 2008.                        | Forces of Nature: The                |                       |
| 2000.                        | Awesome Power of Volcanoes,          |                       |
| Oceans: Dolphins, Sharks,    | Earthquakes, and Tornadoes.          |                       |
| Penguins, and More! Johnna   | Catherine O'Neill Grace. 2004.       |                       |
| Rizzo. 2010.                 |                                      |                       |
|                              | Galileo: The Genius Who Faced        |                       |
| Our World of Water. Beatrice | the Inquisition (National            |                       |
| Hollyer. 2009.               | Geographic World History             |                       |
| 11011ye1. 2003.              | Biographies). Philip Steele.         |                       |
| Pterosaurs: Rulers of the    | 2005.                                |                       |
| Skies in the Dinosaur Age.   |                                      |                       |
| Carolina Arnold. 2004.       | Global Warming. Seymour              |                       |
|                              | Simon. 2010.                         |                       |
| Reaching for the Moon. Buzz  |                                      |                       |
| Aldrin. 2005.                | How Dinosaurs Took Flight:           |                       |
|                              | Fossils, Science, What We Think      |                       |
| Rocket Man: The Mercury      | We Know, and Mysteries Yet           |                       |
| Adventure of John Glenn.     | Unsolved. Christopher Sloan.         |                       |
| Ruth Ashby. 2004.            | 2005.                                |                       |
|                              |                                      |                       |
| Scholastic Atlas of Weather. | I Dreamed of Flying Like a Bird:     |                       |
| QA International/Scholastic  | My Adventure Photographing           |                       |
| Reference. 2004.             | Wild Animals From a                  |                       |
|                              | Helicopter. Robert B. Haas.          |                       |
| Waves: From Surfing to       | ·                                    |                       |
| Tsunami. Drew Kampion.       | 2010.                                |                       |
| 2005.                        | Man: Satallita DV Bublishing         |                       |
|                              | Map: Satellite. DK Publishing. 2007. |                       |
|                              | 2007.                                |                       |
|                              | Ice Scientist: Careers in Frozen     |                       |
|                              | ice Scientist. Careers in Frozen     |                       |

|                       |                            |                            | Antarctic. Sara L. Latta. 2009.  |                         |
|-----------------------|----------------------------|----------------------------|--|-------------------------|
|                       |                            |                            | Maria Mitchell: The Soul of an Astronomer. Beatrice Gormley. 2004.                             |                         |
|                       |                            |                            | Moon Landing. Richard Platt.<br>2008.  |                         |
|                       |                            |                            | Oceans: Dolphins, Sharks,<br>Penguins, and More! Johnna<br>Rizzo. 2010.                        |                         |
|                       |                            |                            | Our World of Water. Beatrice<br>Hollyer. 2009.   |                         |
|                       |                            |                            | Over the Mountains: An Aerial<br>View of Geology. Michael<br>Collier. 2007.                    |                         |
|                       |                            |                            | Over the Rivers: An Aerial View of Geology. 2008.  |                         |
|                       |                            |                            | Team Moon: How 400,000<br>People Landed Apollo 11 on<br>the Moon. Catherine<br>Thimmesh. 2006. |                         |
|                       |                            |                            | Tycho Brahe: Pioneer of Astronomy. Don Nardo. 2007.  |                         |
| Life Science (Plants, | A Place for Birds. Melissa | A Place for Birds. Melissa | Adaptation. Alvin Silverstein.   | Animals on the Edge:    |
| Animals, Human        | Stewart. 2009.             | Stewart. 2009.             | 2007.  | Science Races to Save   |
| Body & Nutrition,     |                            |                            |  | Species Threatened with |

| Ecosystems,                          |
|--------------------------------------|
| Population                           |
| Dynamics, Genetic                    |
| Cell Theory,                         |
| Microbiology,<br>Evolution of Living |
| Organisms)                           |
| <b>.</b>                             |
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At Home with the Gopher Tortoise: The Story of a Keystone Species. Madeleine Dunphy. 2010.

The Buffalo Are Back.
Jean Craighead George.
2010.

Butterfly Eyes and Other Secrets of the Meadow. Joyce Sidman. 2006.

Crocodile Safari. Jim Arnosky. 2009.

Dark Emperor and Other Poems of the Night. Joyce Sidman. 2010.

Elephants of Africa. Gail Gibbons. 2008.

Even an Ostrich Needs a Nest: Where Birds Begin. Irene Kelly. 2009.

Fabulous Fishes. Susan Stockdale. 2008.

Face to Face with Penguins. Yva Momatiuk

African Critters. Robert B. Haas. 2008.

Alzheimer's Disease (Health Alert). 2005.

Animals up Close. Igor Siwanowicz. 2009.

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Big Cats. Dorothy Hinshaw Patent. 2005.

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All About Sleep From A to Zzzz. Elaine Scott. 2008.

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Flying Eagle. Sudipta Bardhan-Quallen. 2009.

Guess What Is Growing Inside This Egg. Mia Posada. 2007.

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Martin. 2010.

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The Hive Detectives: Chronicle of a Honey Bee Catastrophe. Loree Griffin Burns. 2010. Steve Jenkins & Robin Face to Face with Cheetahs. Dinosaur Named Jane. Judith Honey Bees: Letters From Page. 2005. Chris Johns. 2008. Williams. 2007. the Hive. Stephen Buchmann. 2010. Ice Bear: In the Steps of Face to Face with Elephants. Double Helix: The Quest to the Polar Bear, Nicola Beverly & Dereck Joubert. Uncover the Structure of DNA The Human Brain Book: An Davies, 2005. 2008. (National Geographic Science Illustrated Guide to its Quest). Glen Phelan. 2006. Structure, Function, and In the Trees, Honey Bees! Disorders, Rita Carter, Face to Face with Gorillas. Dr. Frankenstein's Human Body 2009. Lori Mortensen. 2009. Michael "Nick" Nichols and Book. Richard Walker. 2008. Elizabeth Carney. 2009. It's Harvest Time! Jean Influenza: The Next Eggs. Marilyn Singer & Emma Pandemic? Connie McElroy. 2010. Face to Face with Lions. Stevenson, 2008. Goldsmith. 2006. Beverly & Dereck Joubert. Life in the Boreal Forrest. 2008. Face to Face with Caterpillars. Invisible Allies: Microbes Brenda Z. Guiberson. Darlyne A. Murawski. 2007. That Shape Our Lives. Face to Face with Manatees. 2009. Jeanette Farrell. 2005. Brian Skerry. 2010. Face to Face with Cheetahs. Looking Closely in the Chris Johns. 2008. Kakapo Rescue: Saving the Face to Face with Penguins. Rain Forest. Frank World's Strangest Parrot. Yva Momatiuk and John Serafini, 2010. Face to Face with Elephants. Sy Montgomery. 2010. Eastcott. 2009. Beverly & Dereck Joubert. Looking for Miza. Juliana 2008. The Least of These: Wild Hatkoff, Isabella Hatkoff, Farmer George Plants a Baby Bird Rescue Stories. Craig Hatkoff, & Paula Nation. Peggy Thomas. Face to Face with Lions. Joan Harris, 2005. Kahumbu, 2008. 2008. Beverly & Dereck Joubert. 2008. Life on Earth—And Beyond. Feathered Dinosaurs of Monarch and Milkweed. Pamela S. Turner. 2008. Helen Frost. 2008. China. Gregory Wenzel. Face to Face with Penguins. Yva 2004. Nic Bishop Spiders. Nic Momatiuk and John Eastcott. A Mother's Journey. Bishop. 2007. 2009. Finding Home. Sandra Sandra Markle, 2005. Markle. 2008. One Small Place in a Tree. The Facts About Cocaine. My Bodyworks: Songs Barbara Brenner. 2004. Suzanne LeVert. 2006. The Flower Hunter: William About Your Bones,

Muscles, Heart, and More! Jane Schoenberg. 2005.

Nat Geo Wild Animal Atlas: Earth's Astonishing Animals and Where They Live. National Geographic. 2010.

National Geographic Little Kids First Big Book of Animals. Catherine D. Hughes. 2010.

Nic Bishop Frogs. Nic Bishop. 2008.

Nic Bishop Lizards. Nic Bishop. 2010.

Pierre the Penguin: A True Story. Jean Marzollo, 2010.

Planting the Trees of Kenya: The Story of Wangari Maathai. Claire A. Nivola. 2008.

A Platypus, Probably. Sneed B. Collard III. 2005. Bartram, America's First Naturalist. Deborah Kogan Ray. 2004.

Forest Explorer: A Life-Sized Field Guide. Nic Bishop. 2004.

Garden of the Spirit Bear: Life in the Great Northern Rainforest. Dorothy Hinshaw Patent. 2004.

Gorilla Doctors: Saving Endangered Great Apes. Pamela S. Turner. 2005.

Great Migrations: Whales, Wildebeests, Butterflies, Elephants, and Other Amazing Animals on the Move. Elizabeth Carney. 2010.

Gut-Eating Bugs: Maggots Reveal the Time of Death! Danielle Denega. 2007.

Guts: Our Digestive System. Seymour Simon. 2005.

Horses. Seymour Simon. 2006.

Food as Foe: Nutrition and Eating Disorders. Lesli J. Favor. 2008.

Genetics: From DNA to Designer Dogs. Kathleen Simpson. 2008.

Giant Sea Reptiles of the Dinosaur Age. Carolina Arnold. 2007.

Gorilla Doctors: Saving Endangered Great Apes. Pamela S. Turner. 2005.

The Great Brain Book: An Inside Look at the Inside of Your Head. H.P. Newquist. 2005.

Great Migrations: Whales, Wildebeests, Butterflies, Elephants, and Other Amazing Animals on the Move. Elizabeth Carney. 2010.

Gut-Eating Bugs: Maggots Reveal the Time of Death! Danielle Denega. 2007.

The Hive Detectives: Chronicle of a Honey Bee Catastrophe. Loree Griffin Burns. 2010.

Outbreak: Science Seeks Safeguards for Global Health. Charles Piddock. 2008.

Parasites: Latching On to a Free Lunch. Paul Fleisher. 2006.

Peanut Butter, Milk, and Other Deadly Threats: What You Should Know About Food Allergies. Sherri Mabry Gordon. 2006.

Project Seahorse. Pamela S. Turner. 2010.

The Race to Save the Lord God Bird. Phillip Hoose. 2004.

Smoking 101: An Overview for Teens. Margaret O. Hyde & John F. Setaro. 2005.

Superbugs Strike Back: When Antibiotics Fail. Connie Goldsmith. 2007.

Wild Lives: A History of the

| A Playtpus' World.      | Honey in a Hive. Anne          | Honey Bees: Letters From the     | People and Animals of the |
|-------------------------|--------------------------------|----------------------------------|---------------------------|
| Caroline Arnold. 2008.  | Rockwell. 2005.                | Hive. Stephen Buchmann.          | Bronx Zoo. Kathleen       |
|                         |                                | 2010.                            | Weidner Zoehfeld. 2006.   |
| Poetrees. Douglas       | How Many Ways Can You          |                                  |                           |
| Florian. 2010.          | Catch a Fly? Steve Jenkins &   | The Human Story: Our             |                           |
|                         | Robin Page. 2008.              | Evolution from Prehistoric       |                           |
| Red Eyes or Blue        |                                | Ancestors to Today.              |                           |
| Feathers: A Book About  | How to Clean a                 | Christopher Sloan. 2004.         |                           |
| Animal Colors. Patricia | Hippopotamus. Steve Jenkins    |                                  |                           |
| M. Stockland. 2005.     | and Robin Page. 2010.          | Invisible Allies: Microbes That  |                           |
|                         |                                | Shape Our Lives. Jeanette        |                           |
| Redwoods. Jason Chin.   | I See a Kookaburra! Steve      | Farrell. 2005.                   |                           |
| 2009.                   | Jenkins & Robin Page. 2005.    |                                  |                           |
|                         |                                | Kakapo Rescue: Saving the        |                           |
| Slow Down for           | Ice Bear: In the Steps of the  | World's Strangest Parrot. Sy     |                           |
| Manatees. Jim Arnosky.  | Polar Bear. Nicola Davies.     | Montgomery. 2010.                |                           |
| 2010.                   | 2005.                          |                                  |                           |
| 2010.                   |                                | Killing Germs, Saving Lives: The |                           |
| Sneeze! Alexandra Siy.  | It's a Butterfly's Life. Irene | Quest for the First Vaccines     |                           |
| 2007.                   | Kelly. 2007.                   | (National Geographic Science     |                           |
| 2007.                   |                                | Quest). Glen Phelan. 2006.       |                           |
| Songs of the Water      | Looking Closely in the Rain    |                                  |                           |
| Boatman and Other Pond  | Forest. Frank Serafini. 2010.  | Kingdom: Micro Monsters:         |                           |
| Poems. Joyce Sidman.    |                                | Extreme Encounters With          |                           |
| 2005.                   | Looking for Miza. Juliana      | Invisible Armies. Nam Nguyen.    |                           |
| 2003.                   | Hatkoff, Isabella Hatkoff,     | 2010.                            |                           |
| Spiders and Their Webs. | Craig Hatkoff, & Paula         |                                  |                           |
| Darlyne A. Murawski.    | Kahumbu. 2008.                 | The Least of These: Wild Baby    |                           |
| 2004.                   |                                | Bird Rescue Stories. Joan        |                           |
| 20011                   | Mammoths and Mastodons:        | Harris. 2005.                    |                           |
| Tracks of a Panda. Nick | titans of the Ice Age. Cheryl  |                                  |                           |
| Dowson. 2007.           | Bardoe. 2010.                  | Life in the Boreal Forrest.      |                           |
| 2007.                   |                                | Brenda Z. Guiberson. 2009.       |                           |
| Turtle Crossing. Rick   | Mosquito Bite. Alexandra       |                                  |                           |
| Taraca Crossing. There  |                                |                                  |                           |

| Chrustowski. 2006.        | Siy. 2005.                                | A Life in the Wild: George      |  |
|---------------------------|---|---------------------------------|--|
|                           |   | Schaller's Struggle to Save the |  |
| Turtle, Turtle, Watch     | Nat Geo Wild Animal Atlas:                | Last Great Beasts. 2008.        |  |
| Out! April Pulley Sayre.  | Earth's Astonishing Animals               |                                 |  |
| 2010.                     | and Where They Live.                      | Life on Earth—And Beyond.       |  |
|                           | National Geographic. 2010.                | Pamela S. Turner. 2008.         |  |
| Ubiquitous: Celebrating   |   |                                 |  |
| Nature's Survivors. Joyce | National Geographic Kids:                 | Lizards (Animal Ways). Dan      |  |
| Sidman. 2010.             | The Ultimate Dinopedia. Don Lessem. 2010. | Greenberg. 2004.                |  |
| Under the Snow. Melissa   |   | Mammoths and Mastodons:         |  |
| Stewart. 2009.            | National Geographic Little                | titans of the Ice Age. Cheryl   |  |
|                           | Kids First Big Book of                    | Bardoe. 2010.                   |  |
| Up, Up, and Away.         | Animals. Catherine D.                     |                                 |  |
| Ginger Wadsworth.         | Hughes. 2010.                             | Mosquito Bite. Alexandra Siy.   |  |
| 2009.                     |   | 2005.                           |  |
| 2003.                     | Nature in the Neighborhood.               |                                 |  |
| Wangari's Trees of        | Gordon Morrison. 2004.                    | National Geographic Kids: The   |  |
| Peace: A True Story From  |   | Ultimate Dinopedia. Don         |  |
| Africa. Jeanette Winter.  | Nic Bishop Frogs. Nic Bishop.             | Lessem. 2010.                   |  |
| 2008.                     | 2008.                                     |                                 |  |
|                           |   | Octopuses. Sandra Markle.       |  |
| What Bluebirds Do.        | Nic Bishop Lizards. Nic                   | 2007.                           |  |
| Pamela F. Kirby. 2009.    | Bishop. 2010.                             |                                 |  |
| ,                         |   | Outbreak: Science Seeks         |  |
| Where Else in the Wild?   | Octopuses. Sandra Markle.                 | Safeguards for Global Health.   |  |
| MORE Camouflaged          | 2007.                                     | Charles Piddock. 2008.          |  |
| Creatures                 | Oh Datal The Co. C. C.                    | Outside and Inside Kill - De    |  |
| Concealedand              | Oh, Rats! The Story of Rats               | Outside and Inside Killer Bees. |  |
| Revealed. David M.        | and People. Albert Marrin. 2006.          | Sandra Markle. 2004.            |  |
|                           | 2000.                                     | Popput Buttor Milk and Other    |  |
| Schwartz and Yael Schy.   | One Night in the Coral Sec                | Peanut Butter, Milk, and Other  |  |
| 2009.                     | One Night in the Coral Sea.               | Deadly Threats: What You        |  |
|                           | Sneed B. Collard III. 2005.               | Should Know About Food          |  |

Why are Animals Blue? Outside and Inside Killer Allergies. Sherri Mabry Gordon. 2006. Bees. Sandra Markle. 2004. Melissa Stewart, 2009. Winter Trees. Carole Pierre the Penguin: A True **Praying Mantises: Hungry** Insect Heroes. Sandra Markle. Gerber, 2008. Story. Jean Marzollo. 2010. 2008. Planting the Trees of Kenya: Winter's Tail: How One Little Dolphin Learned to The Story of Wangari Predators. John Seidensticker Swim Again. Juliana Maathai. Claire A. Nivola. & Susan Lumpkin. 2008. Hatkoff, Isabella Hatkoff, 2008. Craig Hatkoff. 2009. Project Seahorse. Pamela S. A Platypus, Probably. Sneed Turner. 2010. The Wolf: Night Howler B. Collard III. 2005. (Animal Close-Ups). The Race to Save the Lord God Poetrees. Douglas Florian. Bird. Phillip Hoose. 2004. Christian Havard. 2006. 2010. Saving the Ghost of the The Wolves Are Back. The Prairie Builders: Jean Craighead George. Mountain: An Expedition 2008. Reconstructing America's Among Snow Leopards in Lost Grasslands. Sneed B. Mongolia. Sy Montgomery. Collard III. 2005. 2009. Predators, John Search for the Golden Moon Seidensticker & Susan Bear: Science and Adventure in Lumpkin. 2008. the Asian Tropics. Sy Montgomery. 2004. Rain Forest (Kingfisher Voyages). Jinny Johnson with Sigmund Freud (Giants of Nalini Nadkarni. 2006. Science). Kathleen Krull. 2006. Redwoods. Jason Chin. 2009. What Stinks? Marilyn Singer. 2006. Saving the Ghost of the Mountain: An Expedition When the Wolves Returned:

Among Snow Leopards in Restoring Nature's Balance in Yellowstone. Dorothy Hinshaw Mongolia. Sy Montgomery. Patent. 2008. 2009. Wild Lives: A History of the Sharks. Beverly McMillan & People and Animals of the John A. Musick. 2008. Bronx Zoo. Kathleen Weidner Zoehfeld. 2006. Skunks (Wildlife Series). Adrienne Mason. 2006. Wings. Sneed B. Collard, III. 2008. Slippery, Slimy Baby Frogs. Sandra Markle. 2006. Snakes! Strange and Wonderful. Laurence Pringle. 2004. Sneeze! Alexandra Siy. 2007. Songs of the Water Boatman and Other Pond Poems. Joyce Sidman. 2005. Sponges, Jellyfish, and Other Simple Animals (Animal Kingdom Classification). Steve Parker. 2006. Survival at 40 Below. Debbie S. Miller. 2010. The Tarantula Scientist. Sy Montgomery. 2004.

The Temperate Forest: A Web of Life. Philip Johansson. 2004. Tigers. Lynn M. Stone. 2004. Up, Up, and Away. Ginger Wadsworth. 2009. **Ubiquitous: Celebrating** Nature's Survivors. Joyce Sidman. 2010. Wangari's Trees of Peace: A True Story From Africa. Jeanette Winter. 2008. What Bluebirds Do. Pamela F. Kirby. 2009. What in the Wild? Mysteries of Nature Concealed ... and Revealed. David M. Schwartz and Yael Schy. 2010. When the Wolves Returned: Restoring Nature's Balance in Yellowstone. Dorothy Hinshaw Patent. 2008. Where Else in the Wild? **MORE Camouflaged** Creatures Concealed...and Revealed. David M. Schwartz

|                    |                        | and Yael Schy. 2009.          |                                |                            |
|--------------------|------------------------|-------------------------------|--------------------------------|----------------------------|
|                    |                        | and raei scriy. 2009.         |                                |                            |
|                    |                        | Where in the Wild?            |                                |                            |
|                    |                        | Camouflaged Creatures         |                                |                            |
|                    |                        | Concealed and Revealed.       |                                |                            |
|                    |                        | David M. Schwartz & Yael      |                                |                            |
|                    |                        | Schy. 2007.                   |                                |                            |
|                    |                        | Serry. 2007.                  |                                |                            |
|                    |                        | Wings. Sneed B. Collard, III. |                                |                            |
|                    |                        | 2008.                         |                                |                            |
|                    |                        | 2000.                         |                                |                            |
|                    |                        | The Wolf: Night Howler        |                                |                            |
|                    |                        | (Animal Close-Ups). Christian |                                |                            |
|                    |                        | Havard. 2006.                 |                                |                            |
|                    |                        |                               |                                |                            |
|                    |                        | The Wolves Are Back. Jean     |                                |                            |
|                    |                        | Craighead George. 2008.       |                                |                            |
| Science as Inquiry | Sabertooth. Patrick    | Bone Detectives: The Story of | Bone Detectives: The Story of  | Every Bone Tells a Story:  |
|                    | O'Brien. 2008.         | Forensic Anthropologist       | Forensic Anthropologist Diane  | Hominin Discoveries,       |
|                    |                        | Diane France. Lorraine Jean   | France. Lorraine Jean Hopping. | Deductions, and Debates.   |
|                    | T. Rex. Vivian French. | Hopping. 2005.                | 2005.                          | Jill Rubalcaba and Peter   |
|                    | 2004.                  |                               |                                | Robertshaw. 2010.          |
|                    |                        | Case Closed? Nine Mysteries   | Case Closed? Nine Mysteries    |                            |
|                    |                        | Unlocked by Modern Science.   | Unlocked by Modern Science.    | Forensics (Kingfisher      |
|                    |                        | Susan Hughes. 2010.           | Susan Hughes. 2010.            | Knowledge). Richard Platt. |
|                    |                        |                               |                                | 2005.                      |
|                    |                        | Following the Coast. Jim      | Every Bone Tells a Story:      |                            |
|                    |                        | Arnosky. 2004.                | Hominin Discoveries,           | Lost People and a Lost     |
|                    |                        |                               | Deductions, and Debates. Jill  | World: An Anthropological  |
|                    |                        | Guinea Pig Scientists: Bold   | Rubalcaba and Peter            | Mystery. Linda             |
|                    |                        | Self-Experimenters in Science | Robertshaw. 2010.              | Goldenberg. 2006.          |
|                    |                        | and Medicine. Leslie Dendy    |                                |                            |
|                    |                        | and Mel Boring. 2005.         | Forensics (Kingfisher          | The Mysteries of           |
|                    |                        |                               | Knowledge). Richard Platt.     | Beethoven's Hair. Russell  |

|                       |                               | The Marstonian of Deather with  | 2005                              | B. A a until a supplier and leaveling B. Dilla I. |
|-----------------------|-------------------------------|---------------------------------|-----------------------------------|---|
|                       |                               | The Mysteries of Beethoven's    | 2005.                             | Martin and Lydia Nibley.                          |
|                       |                               | Hair. Russell Martin and Lydia  |                                   | 2009.   |
|                       |                               | Nibley. 2009.                   | Guinea Pig Scientists: Bold Self- |   |
|                       |                               |                                 | Experimenters in Science and      | Written in Bones: Buried                          |
|                       |                               | Outside and Inside              | Medicine. Leslie Dendy and        | Lives of Jamestown and                            |
|                       |                               | Mummies. Sandra Markle.         | Mel Boring. 2005.                 | Colonial Maryland. Sally M.                       |
|                       |                               | 2005.                           |                                   | Walker. 2009.                                     |
|                       |                               |                                 | Lost People and a Lost World:     |   |
|                       |                               | The Robin Makes a Laughing      | An Anthropological Mystery.       |   |
|                       |                               | Sound. Sallie Wolf. 2010.       | Linda Goldenberg. 2006.           |   |
|                       |                               |                                 |                                   |   |
|                       |                               | Sabertooth. Patrick O'Brien.    | The Mysteries of Beethoven's      |   |
|                       |                               | 2008.                           | Hair. Russell Martin and Lydia    |   |
|                       |                               |                                 | Nibley. 2009.                     |   |
|                       |                               | Science Detectives: How         | ,                                 |   |
|                       |                               | Scientists Solved Six Real-Life | The North Pole Was Here:          |   |
|                       |                               | Mysteries. Editors of YES       | Puzzles and Perils at the Top of  |   |
|                       |                               | Magazine. 2006.                 | the World. Andrew C. Revkin.      |   |
|                       |                               | 1110001                         | 2006.                             |   |
|                       |                               | Super Croc: Paul Sereno's       | 2000.                             |   |
|                       |                               | Dinosaur Eater. Paul Sereno     | The Robin Makes a Laughing        |   |
|                       |                               | & Natalie Lunis. 2007.          | Sound. Sallie Wolf. 2010.         |   |
|                       |                               | W Natalle Luills. 2007.         | Souria. Saine Wolf. 2010.         |   |
|                       |                               |                                 | Mysittan in Danas, Devised Lives  |   |
|                       |                               |                                 | Written in Bones: Buried Lives    |   |
|                       |                               |                                 | of Jamestown and Colonial         |   |
|                       |                               |                                 | Maryland. Sally M. Walker.        |   |
|                       |                               |                                 | 2009.                             |   |
| Calamaa in December 1 | The Contestion of the Contest | Alle and Financia (C. 1)        | Albert Finetoin Keller W.         | A   |
| Science in Personal   | The Fantastic Undersea        | Albert Einstein. Kathleen       | Albert Einstein. Kathleen Krull.  | American Women                                    |
| & Social              | Life of Jacques Cousteau.     | Krull. 2009.                    | 2009.                             | Inventors. Carole Ann                             |
| Perspectives,         | Dan Yaccarino, Alfred A.      |                                 |                                   | Camp. 2004.                                       |
| History & Nature of   | Knopf. 2009.                  | Almost Astronauts: 13           | Almost Astronauts: 13 Women       |   |
| Science               |                               | Women Who Dared to              | Who Dared to Dream. Tanya         | The Burn Journals. Brent                          |
|                       | Into the Deep: The Life of    | Dream. Tanya Lee Stone.         |                                   | Runyon. 2004.                                     |
|                       | •                             | •                               |                                   |   |

Naturalist and Explorer William Beebe. David Sheldon. 2009.

Look to the Stars. Buzz Aldrin. 2009.

One Giant Leap. Robert Burleigh. 2009.

One Small Step: Celebrating the First Men on the Moon. Jerry Stone. 2009. 2009.

Barnum Brown: Dinosaur Hunter. David Sheldon. 2006.

Bodies From the Ash: Life and Death in Ancient Pompeii.
James M. Deem 2005.

The Fantastic Undersea Life of Jacques Cousteau. Dan Yaccarino, Alfred A. Knopf. 2009.

Genius: A Photobiography of Albert Einstein. Marfe Furguson Delano. 2005.

Into the Deep: The Life of Naturalist and Explorer William Beebe. David Sheldon. 2009.

Look to the Stars. Buzz Aldrin. 2009.

One Giant Leap. Robert Burleigh. 2009.

One Small Step: Celebrating the First Men on the Moon.

Lee Stone. 2009.

Bodies From the Ash: Life and Death in Ancient Pompeii. James M. Deem 2005.

Earth Heroes: Champions of the Wilderness. Bruce and Carol L. Malnor. 2009.

Emperors of the Ice: A True Story of Disaster and Survival in the Antarctic, 1910-13. Richard Farr. 2008.

Endangered Planet. David Burnie. 2004.

Isaac Newton: The Scientist Who Changed Everything. Philip Steele. 2007.

Genius: A Photobiography of Albert Einstein. Marfe Furguson Delano. 2005.

Giants of Science: Marie Curie. Kathleen Krull. 2007.

Leonardo da Vinci (Giants of Science). Kathleen Krull. 2005.

Looking for Seabirds: Journal from an Alaskan Voyage.

Emperors of the Ice: A True Story of Disaster and Survival in the Antarctic, 1910-13. Richard Farr. 2008.

Genius: A Photobiography of Albert Einstein. Marfe Furguson Delano. 2005.

Leonardo da Vinci (Giants of Science). Kathleen Krull. 2005.

Lucy Long Ago: Uncovering the Mystery of Where We Come From. Catherine Thimmesh. 2009.

Mission Control, This is Apollo: The Story of the First Voyages to the Moon. Andrew Chaikin. 2009.

|            | Jerry Stone. 2009.   | Sophie Webb. 2004.  |   |
|------------|--|---|---|
|            | Young Charles Darwin and the Voyage of the Beagle.         | Lucy Long Ago: Uncovering the Mystery of Where We Come                  |   |
|            | Ruth Ashby. 2009.  | From. Catherine Thimmesh. 2009.   |   |
|            |  | Mission Control, This is Apollo:  |   |
|            |  | The Story of the First Voyages to the Moon. Andrew Chaikin.             |   |
|            |  | 2009.   |   |
|            |  | Onward: A Photobiography of<br>African American Polar                   |   |
|            |  | Explorer Matthew Henson.<br>Delores Johnson. 2006.                      |   |
|            |  | Quest for the Tree Kangaroo:<br>An Expedition to the Cloud              |   |
|            |  | Forest of New Guinea (Scientists in the Field). Sy                      |   |
|            |  | Montgomery. 2006.   |   |
|            |  | Young Charles Darwin and the Voyage of the Beagle. Ruth Ashby. 2009.    |   |
| Science &  | The Boy Who Invented TV:                                   | Built to Last: Building America's                                       | Great Inventions:   |
| Technology | The Story of Philo<br>Farnsworth. Kathleen Krull.<br>2009. | Amazing Bridges, Dams, Tunnels, and Skyscrapers. George Sullivan. 2005. | Microscopes and Telescopes. Rebecca Stefoff. 2007.              |
|            | Fantastic Feats and Failures.<br>Editors of YES Magazine.  | Inventions. Glenn Murphy.<br>2009.                                      | Secret Subway: The<br>Fascinating Tale of an<br>Amazing Feat of |

|  | 2004.                         | Secret Subway: The Fascinating | Engineering. Martin W. |
|--|-------------------------------|--------------------------------|------------------------|
|  |                               | Tale of an Amazing Feat of     | Sandler. 2009.         |
|  | Inventions. Glenn Murphy.     | Engineering. Martin W.         |                        |
|  | 2009.                         | Sandler. 2009.                 |                        |
|  |                               |                                |                        |
|  | Thomas Edison: A Brilliant    |                                |                        |
|  | Inventor. Editors of Time for |                                |                        |
|  | Kids with Lisa deMauro.       |                                |                        |
|  | 2005.                         |                                |                        |

# IV. NSTA/CBC Outstanding Science Trade Books for Students, Books Published from 2004-2010, Organized by North Carolina Standard Course of Study Goals

This section includes grade-level lists of outstanding science texts for grades K-8 correlated to the North Carolina Standard Course of Study science goals. In this section, I have interpreted the grade level recommendations from the OSTB lists and have included books in sections beyond the list recommendations if they have potential at other levels.

#### Kindergarten

| Animal  | Simila | arities |
|---------|--------|---------|
| and Dif | feren  | ces     |

At Home With the Gopher Tortoise: The Story of a Keystone Species. Madeleine Dunphy. 2010.

Dark Emperor and Other Poems of the Night. Joyce Sidman. 2010.

Earth: Feeling the Heat. Brenda Z. Guiberson. 2010.

Elephants of Africa. Gail Gibbons. 2008.

Fabulous Fishes. Susan Stockdale. 2008.

Finding Home. Sandra Markle. 2008.

Flying Eagle. Sudipta Bardhan-Quallen. 2009.

Hip-Pocket Papa. Sandra Markle. 2010.

How Many Ways Can You Catch a Fly? Steve Jenkins & Robin Page. 2008.

I See a Kookaburra! Steve Jenkins & Robin Page. 2005.

Ice Bear: In the Steps of the Polar Bear. Nicola Davies. 2005.

In the Trees, Honey Bees! Lori Mortensen. 2009.

Just One Bite. Lola Schaefer. 2010.

Looking for Miza. Juliana Hatkoff, Isabella Hatkoff, Craig Hatkoff, & Paula Kahumbu. 2008.

Looking Closely in the Rain Forest. Frank Serafini. 2010.

Monarch and Milkweed. Helen Frost. 2008.

A Mother's Journey. Sandra Markle. 2005.

National Geographic Little Kids First Big Book of Animals. Catherine D. Hughes. 2010.

Nic Bishop Frogs. Nic Bishop. 2008.

Pierre the Penguin: A True Story. Jean Marzollo. 2010.

A Place for Birds. Melissa Stewart. 2009.

A Platypus, Probably. Sneed B. Collard III. 2005.

A Playtpus' World. Caroline Arnold. 2008.

Red Eyes or Blue Feathers: A Book About Animal Colors. Patricia M. Stockland. 2005.

|                | Slow Down for Manatees. Jim Arnosky. 2010.   |  |  |
|----------------|--|--|--|
|                | Spiders and Their Webs. Darlyne A. Murawski. 2004.   |  |  |
|                | Survival at 40 Below. Debbie S. Miller. 2010.  |  |  |
|                | Tracks of a Panda. Nick Dowson. 2007.  |  |  |
|                | Turtle Crossing. Rick Chrustowski. 2006.   |  |  |
|                | Turtle, Turtle, Watch Out! April Pulley Sayre. 2010.   |  |  |
|                | Under the Snow. Melissa Stewart. 2009.   |  |  |
|                | Up, Up, and Away. Ginger Wodsworth. 2009.  |  |  |
|                | What Bluebirds Do. Pamela F. Kirby. 2009.  |  |  |
|                | Where Else in the Wild? More Camouflaged Creatures Concealedand Revealed. David M. Schwartz and Yael Schy. 2009. |  |  |
|                | The Wolf: Night Howler (Animal Close-Ups). Christian Havard. 2006.   |  |  |
|                | Why Are Animals Blue? Melissa Stewart. 2009.   |  |  |
| Weather        |  |  |  |
| Properties of  |  |  |  |
| Common Objects |  |  |  |
| Tools &        |  |  |  |
| Measurement    |  |  |  |

#### Organized by North Carolina Standard Course of Study Goals, First Grade

#### **Needs of Living Organisms**

A Place for Birds. Melissa Stewart. 2009.

At Home With the Gopher Tortoise: The Story of a Keystone Species. Madieline Dunphy. 2010.

The Buffalo are Back. Jean Craighead George. 2010.

Butterfly Eyes and Other Secrets of the Meadow. Joyce Sidman. 2006.

Crocodile Safari. Jim Arnosky. 2009.

Dark Emperor and Other Poems of the Night. Joyce Sidman. 2010.

Earth: Feeling the Heat. Brenda Z. Guiberson.

Elephants of Africa. Gail Gibbons. 2008.

Even an Ostrich Needs a Nest: Where Birds Begin. Irene Kelly. 2009.

Fabulous Fishes. Susan Stockdale. 2008.

Finding Home. Sandra Markle. 2008.

Flying Eagle. Sudipta Bardhan-Quallen. 2009.

Here is the Tropical Rain Forest. Madeleine Dunphy. 2006.

Here Is the Wetland. Madeleine Dunphy. 2007.

Hip-Pocket Papa. Sandra Markle. 2010.

How Many Ways Can You Catch a Fly? Steve Jenkins & Robin Page. 2008.

I See a Kookaburra! Steve Jenkins & Robin Page. 2005.

Ice Bear: In the Steps of the Polar Bear. Nicola Davies. 2005.

It's Harvest Time! Jean McElroy. 2010.

In the Trees, Honey Bees. Lori Mortensen. 2009.

Just One Bite. Lola Schaefer. 2010.

Looking Closely in the Rain Forest. Frank Serafini. 2010.

Looking for Miza. Juliana Hatkoff, Isabella Hatkoff, Craig Hatkoff, & Paula Kahumbu. 2008.

Monarch and Milkweed. Helen Frost. 2008.

A Mother's Journey. Sandra Markle. 2005.

National Geographic Little Kids First Big Book of Animals. Catherine D. Hughes. 2010.

Nic Bishop Frogs. Nic Bishop. 2008.

Nic Bishop Lizards. Nic Bishop. 2010.

Pierre the Penguin: A True Story. Jean Marzollo. 2010.

A Platypus, Probably. Sneed B. Collard III. 2005.

|                            | <del>,</del>   |
|----------------------------|--|
|                            | A Playtpus' World. Caroline Arnold. 2008.  |
|                            | Redwoods. Jason Chin. 2009.  |
|                            | Slow Down for Manatees. Jim Arnosky. 2010.   |
|                            | Songs of the Water Boatman and Other Pond Poems. Joyce Sidman. 2005.   |
|                            | Spiders and Their Webs. Darlyne A. Murawski. 2004.   |
|                            | Survival at 40 Below. Debbie S. Miller. 2010.  |
|                            | Tracks of a Panda. Nick Dowson. 2007.  |
|                            | Turtle Crossing. Rick Chrustowski. 2006.   |
|                            | Turtle, Turtle, Watch Out! April Pulley Sayre. 2010.   |
|                            | Under the Snow. Melissa Stewart. 2009.   |
|                            | Up, Up, and Away. Ginger Wodsworth. 2009.  |
|                            | What Bluebirds Do. Pamela F. Kirby. 2009.  |
|                            | Where Else in the Wild? More Camouflaged Creatures Concealedand Revealed. David M. Schwartz and Yael           |
|                            | Schy. 2009.  |
|                            | Why are Animals Blue? Melissa Stewart. 2009.   |
|                            | Winter Trees. Carole Gerber. 2008.   |
|                            | Winter's Tail: How One Little Dolphin Learned to Swim Again. Juliana Hatkoff, Isabella Hatkoff, Craig Hatkoff. |
|                            | 2009.  |
|                            | The Wolf: Night Howler (Animal Close-Ups). Christian Havard. 2006.   |
|                            | The Wolves Are Back. Jean Craighead George. 2008.  |
| Solid Earth Materials      |  |
| Properties & Relationships |  |
| of Objects                 |  |
| Balance, Motion, &         | I Fall Down. Vicki Cobb. 2004.   |
| Weighing Objects           | Newton and Me. Lynne Mayer. 2010.  |

## Organized by North Carolina Standard Course of Study Goals, Second Grade

| Animal Life Cycles           | Elephants of Africa. Gail Gibbons. 2008.   |
|------------------------------|--|
|                              | Fabulous Fishes. Susan Stockdale. 2008.  |
|                              | Guess What Is Growing Inside This Egg. Mia Posada. 2007.                                   |
|                              | Hip-Pocket Papa. Sandra Markle. 2010.  |
|                              | Ice Bear: In the Steps of the Polar Bear. Nicola Davies. 2005.                             |
|                              | In the Bees, Honey Bees. Lori Mortensen. 2009.   |
|                              | Looking for Miza. Juliana Hatkoff, Isabella Hatkoff, Craig Hatkoff, & Paula Kahumbu. 2008. |
|                              | A Mother's Journey. Sandra Markle. 2005.   |
|                              | National Geographic Little Kids First Big Book of Animals. Catherine D. Hughes. 2010.      |
|                              | Nic Bishop Frogs. Nic Bishop. 2008.  |
|                              | Nic Bishop Lizards. Nic Bishop. 2010.  |
|                              | A Platypus, Probably. Sneed B. Collard III. 2005.  |
|                              | A Playtpus' World. Caroline Arnold. 2008.  |
|                              | Spiders and Their Webs. Darlyne A. Murawski. 2004.   |
|                              | Tracks of a Panda. Nick Dowson. 2007.  |
|                              | Turtle, Turtle, Watch Out! April Pulley Sayre. 2010.                                       |
|                              | Up, Up, and Away. Ginger Wodsworth. 2009.  |
|                              | What Bluebirds Do. Pamela F. Kirby. 2009.  |
|                              | The Wolf: Night Howler (Animal Close-Ups). Christian Havard. 2006.                         |
|                              | The Wolves Are Back. Jean Craighead George. 2008.  |
| Changes in Weather           | Erased by a Tornado! Jessica Rudolph. 2010.  |
|                              | Global Warming. Seymour Simon. 2010.   |
|                              | Life in the Boreal Forrest. Brenda Z. Guiberson. 2009.                                     |
|                              | The Story of Snow: The Science of Winter's Wonder. Mark Cassino, with Jon Nelson. 2009.    |
| <b>Changes in Properties</b> |  |
| Sound                        |  |

## Organized by North Carolina Standard Course of Study Goals, Third Grade

| Plant Growth & Adaptation         | Dark Emperor and Other Poems of the Night. Joyce Sidman. 2010.                                   |
|-----------------------------------|--|
| Fiant Glowth & Adaptation         |  |
|                                   | Farmer George Plants a Nation. Peggy Thomas. 2008.   |
|                                   | The Flower Hunter: William Bartram, America's First Naturalist. Deborah Kogan Ray. 2004.         |
|                                   | Forest Explorer: A Life-Sized Field Guide. Nic Bishop. 2004.                                     |
|                                   | Growing Patterns. Sarah C. Campbell. 2010.   |
|                                   | Honey in a Hive. Anne Rockwell. 2005.  |
|                                   | Looking Closely in the Rain Forest. Frank Serafini. 2010.  |
|                                   | Nature in the Neighborhood. Gordon Morrison. 2004.   |
|                                   | Planting the Trees of Kenya: The Story of Wangari Maathai. Claire A. Nivola. 2008.               |
|                                   | Poetrees. Douglas Florian. 2010.   |
|                                   | The Prairie Builders: Reconstructing America's Lost Grasslands. Sneed B. Collard III. 2005.      |
|                                   | Rain Forest (Kingfisher Voyages). Jinny Johnson with Nalini Nadkarni. 2006.                      |
|                                   | Redwoods. Jason Chin. 2009.  |
|                                   | The Temperate Forest: A Web of Life. Philip Johansson. 2004.                                     |
|                                   | Wangari's Trees of Peace: A True Story From Africa. Jeanette Winter. 2008.                       |
| Soil Properties                   |  |
| Earth/Moon/Sun                    | Come See the Earth Turn: The Story of Léon Foucault. Lori Mortensen. 2010.                       |
|                                   | Look to the Stars. Buzz Aldrin. 2009.  |
|                                   | Moon Landing. Richard Platt. 2008.   |
|                                   | One Giant Leap. Robert Burleigh. 2009.   |
|                                   | One Small Step: Celebrating the First Men on the Moon. Jerry Stone. 2009.                        |
|                                   | Reaching for the Moon. Buzz Aldrin. 2005.  |
|                                   | Rocket Man: The Mercury Adventure of John Glenn. Ruth Ashby. 2004.                               |
| The Human Body: Skeletal & Muscle | Bodyscope: Movers and Shapers. Patricia Macnair. 2004.   |
| Systems                           | Bone Detectives: The Story of Forensic Anthropologist Diane France. Lorraine Jean Hopping. 2005. |
| -                                 | Dr. Frankenstein's Human Body Book. Richard Walker. 2008.  |

#### Organized by North Carolina Standard Course of Study Goals, Fourth Grade

# Animal Behavior & Adaptation

African Critters. Robert B. Haas. 2008.

Animals up Close. Igor Siwanowicz. 2009.

At Home with the Gopher Tortoise: The Story of a Keystone Species. Madeleine Dunphy. 2010.

Being Caribou: Five Months on Foot With a Caribou Herd. Karsten Heuer. 2007.

Big Cats. Dorothy Hinshaw Patent. 2005.

The Boy Who Drew Birds: A Story of John James Audubon. Jacqueline Davies. 2004.

The Buffalo are Back. Jean Craighead George. 2010.

Butterfly Eyes and Other Secrets of the Meadow. Joyce Sidman. 2006.

The Buzz on Bees: Why Are They Disappearing? Shelley Rotner and Anne Woodhull. 2010.

The Chiru of High Tibet: A True Story. Jacqueline Briggs Martin. 2010.

Crocodile Safari. Jim Arnosky. 2009.

Dark Emperor and Other Poems of the Night. Joyce Sidman. 2010.

Eggs. Marilyn Singer & Emma Stevenson. 2008.

Eliza and the Dragonfly. Susie Caldwell Rinehart. 2004.

Even an Ostrich Needs a Nest: Where Birds Begin. Irene Kelly. 2009.

Face to Face with Caterpillars. Darlyne A. Murawski. 2007.

Face to Face with Cheetahs. Chris Johns. 2008.

Face to Face with Elephants. Beverly & Dereck Joubert. 2008.

Face to Face with Gorillas. Michael "Nick" Nichols and Elizabeth Carney. 2009.

Face to Face with Lions. Beverly & Dereck Joubert. 2008.

Face to Face with Manatees. Brian Skerry. 2010.

Face to Face with Penguins. Yva Momatiuk and John Eastcott. 2009.

Finding Home. Sandra Markle. 2008.

Following the Coast. Jim Arnosky. 2004.

Forest Explorer: A Life-Sized Field Guide. Nic Bishop. 2004.

Garden of the Spirit Bear: Life in the Great Northern Rainforest. Dorothy Hinshaw Patent. 2004.

Global Warming and the Dinosaurs: Fossil Discoveries at the Poles. Caroline Arnold. 2009.

Gorilla Doctors: Saving Endangered Great Apes. Pamela S. Turner. 2005.

Great Migrations: Whales, Wildebeasts, Butterflies, Elephants and Other Animals on the Move. Elizabeth Carney. 2010.

Gut-Eating Bugs: Maggots Reveal the Time of Death! Danielle Denega. 2007.

Hip-Pocket Papa. Sandra Markle. 2010.

The Hive Detectives: Chronicle of a Honey Bee Catastrophe. Loree Griffin Burns. 2010.

Horses. Seymour Simon. 2006.

Honey in a Hive. Anne Rockwell. 2005.

How Many Ways Can You Catch a Fly? Steve Jenkins & Robin Page. 2008.

How to Clean a Hippopotamus: A Look at Unusual Animal Partnerships. Steve Jenkins and Robin Page. 2010.

I Dreamed of Flying Like a Bird. Robert B. Haas. 2010.

I See a Kookaburra! Steve Jenkins & Robin Page. 2005.

Ice Bear: In the Steps of the Polar Bear. Nicola Davies. 2005.

It's a Butterfly's Life. Irene Kelly. 2007.

Just One Bite. Lola Schaefer. 2010.

Life in the Boreal Forrest, Brenda Z. Guiberson, 2009.

Looking Closely in the Rain Forest. Frank Serafini. 2010.

Looking for Miza. Juliana Hatkoff, Isabella Hatkoff, Craig Hatkoff, & Paula Kahumbu. 2008.

Mammoths and Mastodons: Titans of the Ice Age. Cheryl Bardoe. 2010.

Mosquito Bite. Alexandra Siy. 2005.

Nat Geo Wild Animal Atlas: Earth's Astonishing Animals and Where They Live. National Geographic Kids. 2010.

National Geographic Kids: The Ultimate Dinopedia. Don Lessem. 2010.

National Geographic Little Kids First Big Book of Animals. Catherine D. Hughes. 2010.

Nature in the Neighborhood. Gordon Morrison. 2004.

Nic Bishop Frogs. Nic Bishop. 2008.

Nic Bishop Lizards. Nic Bishop. 2010.

Oceans: Dolphins, Sharks, Penguins, and More! Johnna Rizzo. 2010.

Octopuses. Sandra Markle. 2007.

Oh, Rats! The Story of Rats and People. Albert Marrin. 2006.

One Night in the Coral Sea. Sneed B. Collard III. 2005.

Outside and Inside Killer Bees. Sandra Markle. 2004.

Pierre the Penguin: A True Story. Jean Marzollo. 2010.

A Platypus, Probably. Sneed B. Collard III. 2005.

Predators. John Seidensticker & Susan Lumpkin. 2008.

Project Seahorse. Pamela S. Turner. 2010.

|                              | Rain Forest (Kingfisher Voyages). Jinny Johnson with Nalini Nadkarni. 2006.                                    |
|------------------------------|--|
|                              | The Robin Makes a Laughing Sound: A Birder's Journal. Sallie Wolf. 2010.                                       |
|                              | Sabertooth. Patrick O'Brien. 2008.   |
|                              | Saving the Ghost of the Mountain: An Expedition Among Snow Leopards in Mongolio. Sy Montgomery. 2009.          |
|                              | Sharks. Beverly McMillan & John A. Musick. 2008.   |
|                              | Skunks (Wildlife Series). Adrienne Mason. 2006.  |
|                              | Slippery, Slimy Baby Frogs. Sandra Markle. 2006.   |
|                              | Snakes! Strange and Wonderful. Laurence Pringle. 2004.   |
|                              | Songs of the Water Boatman and Other Pond Poems. Joyce Sidman. 2005.   |
|                              | Sponges, Jellyfish, and Other Simple Animals (Animal Kingdom Classification). Steve Parker. 2006.              |
|                              | Survival at 40 Below. Debbie S. Miller. 2010.  |
|                              | The Tarantula Scientist. Sy Montgomery. 2004.  |
|                              | The Temperate Forest: A Web of Life. Philip Johansson. 2004.   |
|                              | Tigers. Lynn M. Stone. 2004.   |
|                              | Ubiquitous: Celebrating Nature's Survivors. Joyce Sidman. 2010.  |
|                              | Under the Snow. Melissa Stewart. 2009.   |
|                              | Up, Up, and Away. Ginger Wodsworth. 2009.  |
|                              | What Bluebirds Do. Pamela F. Kirby. 2009.  |
|                              | What in the Wild? Mysteries of Nature Concealedand Revealed. David M. Schwartz and Yael Schy. 2010.            |
|                              | When the Wolves Returned: Restoring Nature's Balance in Yellowstone. Dorothy Hinshaw Patent. 2008.             |
|                              | Where Else in the Wild? More Camouflaged Creatures Concealedand Revealed. David M. Schwartz and Yael           |
|                              | Schy. 2009.  |
|                              | Where in the Wild? Camouflaged Creatures Concealed and Revealed. David M. Schwartz & Yael Schy. 2007.          |
|                              | Why are Animals Blue? Melissa Stewart. 2009.   |
|                              | Wings. Sneed B. Collard, III. 2008.  |
|                              | Winter's Tail: How One Little Dolphin Learned to Swim Again. Juliana Hatkoff, Isabella Hatkoff, Craig Hatkoff. |
|                              | 2009.  |
|                              | The Wolf: Night Howler (Animal Close-Ups). Christian Havard. 2006.   |
|                              | The Wolves Are Back. Jean Craighead George. 2008.  |
| Rocks & Minerals             |  |
| Magnetism & Electricity      | The Boy Who Invented TV: The Story of Philo Farnsworth. Kathleen Krull. 2009.                                  |
| Food, Energy, Growth, Repair | Bodyscope: Movers and Shapers. Patricia Macnair. 2004.   |
|                              | Dr. Frankenstein's Human Body Book. Richard Walker. 2008.  |

#### Organized by North Carolina Standard Course of Study Goals, Fifth Grade

# Ecosystems (Interdependence of Plants & Animals)

At Home with the Gopher Tortoise: The Story of a Keystone Species. Madeleine Dunphy. 2010.

Being Caribou: Five Months on Foot With a Caribou Herd. Karsten Heuer. 2007.

The Buffalo Are Back. Jean Craighead George. 2010.

The Buzz on Bees: Why Are They Disappearing? Shelley Rotner and Anne Woodhull. 2010.

The Chiru of High Tibet: A True Story. Jacqueline Briggs Martin. 2010.

Crocodile Safari. Jim Arnosky. 2009.

Dark Emperor and Other Poems of the Night. Joyce Sidman. 2010.

Earth Heroes: Champions of Wild Animals. Bruce and Carol L. Malnor. 2010.

Earth Heroes: Champions of the Wilderness. Bruce and Carol L. Malnor. 2009.

Even an Ostrich Needs a Nest: Where Birds Begin. Irene Kelly. 2009.

Face to Face with Manatees. Brian Skerry. 2010.

Forest Explorer: A Life-Sized Field Guide. Nic Bishop. 2004.

Garden of the Spirit Bear: Life in the Great Northern Rainforest. Dorothy Hinshaw Patent. 2004.

Great Migrations: Whales, Wildebeasts, Butterflies, Elephants, and Other Amazing Animals on the Move.

Elizabeth Carney. 2010.

Hip-Pocket Papa. Sandra Markle. 2010.

The Hive Detectives: Chronicle of a Honey Bee Catastrophe. Loree Griffin Burns. 2010.

Honey Bees: Letters From the Hive. Stephen Buchmann. 2010.

How Many Ways Can You Catch a Fly? Steve Jenkins & Robin Page. 2008.

How to Clean a Hippopotamus: A Look at Unusual Animal Partnerships. Steve Jenkins and Robin Page. 2010.

I Dreamed of Flying Like a Bird: My Adventure Photographing Wild Animals From a Helicopter. Robert B. Haas. 2010.

Just One Bite. Lola Schaefer. 2010.

Kakapo Rescue: Saving the World's Strangest Parrot. Sy Montgomery. 2010.

Life in the Boreal Forrest. Brenda Z. Guiberson. 2009.

Looking Closely in the Rain Forest. Frank Serafini. 2010.

Mammoths and Mastodons: Titans of the Ice Age. Cheryl Bardoe. 2010.

Monarch and Milkweed. Helen Frost. 2008. Mosquito Bite. Alexandra Siv. 2005. Nat Geo Wild Animal Atlas: Earth's Astonishing Animals and Where They Live. National Geographic. 2010. National Geographic Kids: The Ultimate Dinopedia. Don Lessem. 2010. National Geographic Little Kids First Big Book of Animals. Catherine D. Hughes. 2010. Nature in the Neighborhood. Gordon Morrison. 2004. Nic Bishop Lizards. Nic Bishop. 2010. Oceans: Dolphins, Sharks, Penguins, and More! Johnna Rizzo. 2010. Oh, Rats! The Story of Rats and People. Albert Marrin. 2006. One Night in the Coral Sea. Sneed B. Collard III. 2005. Planting the Trees of Kenya: The Story of Wangari Maathai. Claire A. Nivola. 2008. The Prairie Builders: Reconstructing America's Lost Grasslands. Sneed B. Collard III. 2005. Predators. John Seidensticker & Susan Lumpkin. 2008. Project Seahorse. Pamela S. Turner. 2010. The Race to Save the Lord God Bird. Phillip Hoose. 2004. Rain Forest (Kingfisher Voyages). Jinny Johnson with Nalini Nadkarni. 2006. Redwoods, Jason Chin, 2009. The Robin Makes a Laughing Sound: A Birder's Journal. Sallie Wolf. 2010. Survival at 40 Below, Debbie S. Miller, 2010. The Temperate Forest: A Web of Life. Philip Johansson. 2004. Wangari's Trees of Peace: A True Story From Africa. Jeanette Winter. 2008. What Bluebirds Do. Pamela F. Kirby. 2009. What in the Wild? Mysteries of Nature Concealed...and Revealed. David M. Schwartz and Yael Schy. 2010. When the Wolves Returned: Restoring Nature's Balance in Yellowstone. Dorothy Hinshaw Patent. 2008. Where Else in the Wild? More Camouflaged Creatures Concealed...and Revealed. David M. Schwartz and Yael Schv. 2009. Where in the Wild? Camouflaged Creatures Concealed... and Revealed. David M. Schwartz & Yael Schy. 2007. The Wolves Are Back. Jean Craighead George. 2008. Landforms Big Alaska: Journey Across America's Most Amazing State. Debbie S. Miller. 2006. Erosion: How Land Forms, How It Changes. Darlene R. Stille. 2005. The Fantastic Undersea Life of Jacques Cousteau. Dan Yaccarino, Alfred A. Knopf. 2009. I Dreamed of Flying Like a Bird: My Adventure Photographing Wild Animals From a Helicopter. Robert B. Haas. 2010. Ice Scientists: Careers in Frozen Antarctic. Sara L. Latta. 2009.

|                             | Map: Satellite. DK Publishing. 2007.  |  |
|-----------------------------|---|--|
|                             | Oceans: Dolphins, Sharks, Penguins, and More! Johnna Rizzo. 2010.   |  |
|                             | Our World of Water. Beatrice Hollyer. 2009.   |  |
|                             | Over the Coasts: An Aerial View of Geology. Michael Collier. 2009.  |  |
|                             | Over the Mountains: An Aerial View of Geology. Michael Collier. 2007.                                     |  |
|                             | Over the Rivers: An Aerial View of Geology. 2008.   |  |
| Weather & Climate           | Close to the Wind: The Beaufort Scale. Peter Malone. 2007.  |  |
|                             | Erased by a Tornado! Jessica Rudolph. 2010.   |  |
|                             | Global Warming. Seymour Simon. 2010.  |  |
|                             | Ice Scientists: Careers in Frozen Antarctic. Sara L. Latta. 2009.   |  |
|                             | Our World of Water. Beatrice Hollyer. 2009.   |  |
|                             | Scholastic Atlas of Weather. QA International/Scholastic Reference. 2004.                                 |  |
|                             | The Story of Snow: The Science of Winter's Wonder. Mark Cassino, with Jon Nelson. 2009.                   |  |
| Force &                     | Albert Einstein. Kathleen Krull. 2009.  |  |
| Motion/Technological Design | The Boy Who Invented TV: The Story of Philo Farnsworth. Kathleen Krull. 2009.                             |  |
|                             | Built to Last: Building America's Amazing Bridges, Dams, Tunnels, and Skyscrapers. George Sullivan. 2005. |  |
|                             | Cars on Mars: Roving the Red Planet. Alexandria Siy. 2009.  |  |
|                             | Come See the Earth Turn: The Story of Léon Foucault. Lori Mortensen. 2010.                                |  |
|                             | Fantastic Feats and Failures. Editors of YES Magazine. 2004.  |  |
|                             | I Fall Down. Vicki Cobb. 2004.  |  |
|                             | Into the Deep: the Life of Naturalist and Explorer William Beebe. David Sheldon. 2009.                    |  |
|                             | Inventions. Glenn Murphy. 2009.   |  |
|                             | Neo Leo: The Ageless Ideas of Leonardo da Vinci. Gene Barretta. 2009.                                     |  |
|                             | One Small Step: Celebrating the First Men on the Moon. Jerry Stone. 2009.                                 |  |
|                             | S is for Scientists: A Discovery Alphabet. Larry Verstraete. 2010.  |  |
|                             | The Secret Subway: The Fascinating Tale of an Amazing Feat of Engineering. Martin W. Sandler. 2009.       |  |
|                             | Thomas Edison: A Brilliant Inventor. Editors of Time for Kids with Lisa deMauro. 2005.                    |  |

# Organized by North Carolina Standard Course of Study Goals, Sixth-Eighth Grade Goals 1 & 2

| Scientific    | Albert Einstein. Kathleen Krull. 2009.   |
|---------------|--|
| Inquiry       | Bodies From the Ash: Life and Death in Ancient Pompeii. James M. Deem 2005.  |
|               | Bone Detectives: The Story of Forensic Anthropologist Diane France. Lorraine Jean Hopping. 2005.                             |
|               | Case Closed? Nine Mysteries Unlocked by Modern Science. Susan Hughes. 2010.  |
|               | Emperors of the Ice: A True Story of Disaster and Survival in the Antarctic, 1910-13. Richard Farr. 2008.                    |
|               | Every Bone Tells a Story: Hominin Discoveries, Deductions, and Debates. Jill Rubalcaba and Peter Robertshaw. 2010.           |
|               | Forensics (Kingfisher Knowledge). Richard Platt. 2005.   |
|               | Genius: A Photobiography of Albert Einstein. Marfe Furguson Delano. 2005.  |
|               | Giants of Science: Marie Curie. Kathleen Krull. 2007.  |
|               | Guinea Pig Scientists: Bold Self-Experimenters in Science and Medicine. Leslie Dendy and Mel Boring. 2005.                   |
|               | Into the Deep: the Life of Naturalist and Explorer William Beebe. David Sheldon. 2009.                                       |
|               | If Stones Could Speak: Unlocking the Secrets of Stonehenge. Mark Aronson with Mike Parker Pearson and the Riverside Project. |
|               | 2010.  |
|               | Isaac Newton: The Scientist Who Changed Everything. Philip Steele. 2007.   |
|               | Leonardo da Vinci (Giants of Science). Kathleen Krull. 2005.   |
|               | Looking for Seabirds: Journal from an Alaskan Voyage. Sophie Webb. 2004.   |
|               | Lost People and a Lost World: An Anthropological Mystery. Linda Goldenberg. 2006.  |
|               | The Mysteries of Beethoven's Hair. Russell Martin and Lydia Nibley. 2009.  |
|               | The North Pole Was Here: Puzzles and Perils at the Top of the World. Andrew C. Revkin. 2006.                                 |
|               | Onward: A Photobiography of African American Polar Explorer Matthew Henson. Delores Johnson. 2006.                           |
|               | Quest for the Tree Kangaroo: An Expedition to the Cloud Forest of New Guinea (Scientists in the Field). Sy Montgomery. 2006. |
|               | The Robin Makes a Laughing Sound: A Birder's Journal. Sallie Wolf. 2010.   |
|               | Saving the Ghost of the Mountain: An Expedition Among Snow Leopards in Mongolia. Sy Montgomery. 2009.                        |
|               | Written in Bone: Buried Lives of Jamestown and Colonial Maryland. Sally M. Walker. 2009.                                     |
| Technological | The Boy Who Invented TV: The Story of Philo Farnsworth. Kathleen Krull. 2009.  |
| Design        | Built to Last: Building America's Amazing Bridges, Dams, Tunnels, and Skyscrapers. George Sullivan. 2005.                    |
|               | Car Science. Richard Hammond. 2008.  |
|               | Cars on Mars: Roving the Red Planet. Alexandria Siy. 2009.   |

Come See the Earth Turn: The Story of Léon Foucault. Lori Mortensen. 2010.

Cool Stuff Exploded. Chris Woodford. 2008.

Into the Deep: the Life of Naturalist and Explorer William Beebe. David Sheldon. 2009.

Inventions. Glenn Murphy. 2009.

Mission Control, This is Apollo: The Story of the First Voyage to the Moon. Andrew Chaikin. 2009.

Neo Leo: The Ageless Ideas of Leonardo da Vinci. Gene Barretta. 2009.

One Small Step: Celebrating the First Men on the Moon. Jerry Stone. 2009.

S is for Scientists: A Discovery Alphabet. Larry Verstraete. 2010.

The Secret Subway: The Fascinating Tale of an Amazing Feat of Engineering. Martin W. Sandler. 2009.

The Ultimate Weapon: The Race to Develop the Atomic Bomb. Edward T. Sullivan. 2007.

# Organized by North Carolina Standard Course of Study Goals, Sixth Grade Continued

| Lithosphere         | Cave Sleuths. Laurie Lindop. 2005.  |
|---------------------|---|
|                     | Diving to a Deep-Sea Volcano (Scientists in the Field.) Kenneth Mallory. 2006.                                |
|                     | Erosion: How Land Forms, How It Changes. Darlene R. Stille. 2005.   |
|                     | Forces of Nature: The Awesome Power of Volcanoes, Earthquakes, and Tornadoes. Catherine O'Neill Grace. 2004.  |
|                     | Map: Satellite. DK Publishing. 2007.  |
|                     | Over the Mountains: An Aerial View of Geology. Michael Collier. 2007.   |
|                     | Over the Rivers: An Aerial View of Geology. 2008.   |
| Cycling of Matter   |   |
| Solar System        | Almost Astronauts: 13 Women Who Dared to Dream. Tanya Lee Stone. 2009.  |
|                     | Are We Alone? Scientists Search for Life in Space. Gloria Skurzynski. 2004.                                   |
|                     | Cars on Mars: Roving the Red Planet. Alexandria Siy. 2009.  |
|                     | Come See the Earth Turn: The Story of Léon Foucault. Lori Mortensen. 2010.                                    |
|                     | Galileo: The Genius Who Faced the Inquisition (National Geographic World History Biographies). Philip Steele. |
|                     | 2005.   |
|                     | Life on Earth—And Beyond. Pamela S. Turner. 2008.   |
|                     | Look to the Stars. Buzz Aldrin. 2009.   |
|                     | Maria Mitchell: The Soul of an Astronomer. Beatrice Gormley. 2004.  |
|                     | Mission Control, This is Apollo: The Story of the First Voyage to the Moon. Andrew Chaikin. 2009.             |
|                     | Moon Landing. Richard Platt. 2008.  |
|                     | One Giant Leap. Robert Burleigh. 2009.  |
|                     | One Small Step: Celebrating the First Men on the Moon. Jerry Stone. 2009.                                     |
|                     | Rockets. Ron Miller. 2007.  |
|                     | Team Moon: How 400,000 People Landed Apollo 11 on the Moon. Catherine Thimmesh. 2006.                         |
|                     | Tycho Brahe: Pioneer of Astronomy. Don Nardo. 2007.   |
| Energy              |   |
| Population Dynamics | Animals on the Edge: Science Races to Save Species Threatened with Extinction. Sandra Pobst. 2008.            |
|                     | Endangered Planet. David Burnie. 2004.  |
|                     | The Least of These: Wild Baby Bird Rescue Stories. Joan Harris. 2005.   |

A Life in the Wild: George Schaller's Struggle to Save the Last Great Beasts. 2008.

Mosquito Bite. Alexandra Siy. 2005.
Outbreak: Science Seeks Safeguards for Global Health. Charles Piddock. 2008.

Predators. John Seidensticker & Susan Lumpkin. 2008.
The Race to Save the Lord God Bird. Phillip Hoose. 2004.
When the Wolves Returned: Restoring Nature's Balance in Yellowstone. Dorothy Hinshaw Patent. 2008.

# Organized by North Carolina Standard Course of Study Goals, Seventh Grade Continued

| Atmosphere      | Global Warming. Seymour Simon. 2010.  |
|-----------------|---|
| Human Body      | All About Sleep From A to Zzzz. Elaine Scott. 2008.   |
| Systems         | Belly-Busting Worm Invasions! Parasites That Love Your Insides! Thomsine E. Lewis Tilden. 2007.                       |
|                 | The Breast Cancer Update. Alvin Silverstein, Virginia Silverstein, & Laura Silverstein. 2007.                         |
|                 | Cancer. Alvin & Virginia Silverstein & Laura Silverstein Nunn. 2005.  |
|                 | The Complete Human Body: The Definitive Visual Guide. Alice Roberts. 2010.  |
|                 | Dr. Frankenstein's Human Body Book. Richard Walker. 2008.   |
|                 | The Facts About Cocaine. Suzanne LeVert. 2006.  |
|                 | Food as Foe: Nutrition and Eating Disorders. Lesli J. Favor. 2008.  |
|                 | The Great Brain Book: An Inside Look at the Inside of Your Head. H.P. Newquist. 2005.                                 |
|                 | The Human Brain Book: An Illustrated Guide to Its Structure, Function, and Disorders. Rita Carter. 2009.              |
|                 | Invisible Allies: Microbes That Shape Our Lives. Jeanette Farrell. 2005.  |
|                 | Killing Germs, Saving Lives: The Quest for the First Vaccines (National Geographic Science Quest). Glen Phelan. 2006. |
|                 | Outbreak: Science Seeks Safeguards for Global Health. Charles Piddock. 2008.  |
|                 | Peanut Butter, Milk, and Other Deadly Threats: What You Should Know About Food Allergies. Sherri Mabry Gordon. 2006.  |
| Heredity &      | Decoding Life: Unraveling the Mysteries of the Genome. Ron Fridell. 2004.   |
| Genetics        | Double Helix: The Quest to Uncover the Structure of DNA (National Geographic Science Quest). Glen Phelan. 2006.       |
|                 | Genetics: From DNA to Designer Dogs. Kathleen Simpson. 2008.  |
| Motion & Forces | Car Science. Richard Hammond. 2008.   |

# Organized by North Carolina Standard Course of Study Goals, Eighth Grade Continued

| Hydrosphere  | Diving to a Deep-Sea Volcano (Scientists in the Field.) Kenneth Mallory. 2006.   |
|--------------|--|
|              | Global Warming. Seymour Simon. 2010.   |
|              | Map: Satellite. DK Publishing. 2007.   |
|              | Oceans: Dolphins, Sharks, Penguins, and More. Johnna Rizzo. 2010.  |
|              | Over the Coasts: An Aerial View of Geology. Michael Collier. 2009.   |
|              | Over the Rivers: An Aerial View of Geology. 2008.  |
| Chemistry    | Atomic Universe: The Quest to Discover Radioactivity. Kate Boehm Jerome. 2006.   |
|              | The Elements: What You Really Want to Know. Ron Miller. 2005.  |
|              | Marie Curie: A Brilliant Life. Elizabeth MacLeod. 2004.  |
|              | Something Out of Nothing: Marie Curie and Radium. Carla Killough McClafferty. 2006.                                      |
|              | The Ultimate Weapon: The Race to Develop the Atomic Bomb. Edward T. Sullivan. 2007.                                      |
| Evolution    | Adaptation. Alvin Silverstein. 2007.   |
|              | Bodies from the Ices: Melting Glaciers and the Recovery of the Past. James M. Deem. 2008.                                |
|              | Dinosaur Atlas: An Amazing Journey Through a Lost World. John Malam & John Woodward. 2006.                               |
|              | Dinosaur Eggs Discovered! Unscrambling the Clues. Lowell Dingus, Luis M. Chiappe, & Rodolfo Coria. 2007.                 |
|              | Dinosaur Mountain: Digging Into the Jurassic Age. Deborah Kogan Ray. 2010.   |
|              | Dinosaurs: The Most Complete, Up-to-Date Encyclopedia for Dinosaur Lovers of All Ages. Thomas R. Holtz. 2007.            |
|              | The Discovery and Mystery of a Dinosaur Named Jane. Judith Williams. 2007.   |
|              | Global Warming and the Dinosaurs: Fossil Discoveries at the Poles. Caroline Arnold. 2009.                                |
|              | How Dinosaurs Took Flight: Fossils, Science, What We Think We Know, and Mysteries Yet Unsolved. Christopher Sloan. 2005. |
|              | The Human Story: Our Evolution from Prehistoric Ancestors to Today. Christopher Sloan. 2004.                             |
|              | Lucy Long Ago: Uncovering the Mystery of Where We Come From. Catherine Thimmesh. 2009.                                   |
|              | National Geographic Kids: The Ultimate Dinopedia. Don Lessem. 2010.  |
|              | Ubiquitous: Celebrating Nature's Survivors. Joyce Sidman. 2010.  |
|              | Young Charles Darwin and the Voyage of the Beagle. Ruth Ashby. 2009.   |
| Cell Theory  | Dr. Frankenstein's Human Body Book. Richard Walker. 2008.  |
|              | The Human Brain Book: An Illustrated Guide to Its Structure, Function, and Disorders. Rita Carter. 2009.                 |
| Microbiology | Belly-Busting Worm Invasions! Parasites That Love Your Insides! Thomsine E. Lewis Tilden. 2007.                          |

Code Orange. Caroline B. Cooney. 2005.

Deadly Invaders: Virus Outbreaks Around the World, From Marburg Fever to Asian Flu. Denise Grady. 2006.

Invisible Allies: Microbes That Shape Our Lives. Jeanette Farrell. 2005.

Killing Germs, Saving Lives: The Quest for the First Vaccines (National Geographic Science Quest). Glen Phelan. 2006.

Kingdom: Micro Monsters: Extreme Encounters with Invisible Armies. Nam Nguyen. 2010.

Outbreak: Science Seeks Safeguards for Global Health. Charles Piddock. 2008.

# V. Recommended Resources for Identifying Quality Science Texts

# National Science Teachers Association/Children's Book Council Outstanding Science Trade Book Lists <a href="http://www.nsta.org/publications/ostb/">http://www.nsta.org/publications/ostb/</a>

The NSTA/CBC review panel reads and carefully evaluates hundreds of books each year in order to identify the best that have been published and to make these titles available to teachers.

### NSTA journal Science & Children, Teaching through Trade Books Column

http://www.nsta.org/elementaryschool/?lid=pub

This column is focused on highlighting a trade book or two and describing ways the book(s) can be used to help students do science.

#### Search It! Science: The books you need at lightning speed.

http://books.heinemann.com/products/002055.aspx

An online literature-searching tool that enables users to match their scientific interests or curricular needs with children's trade books. The *Search It! Science* database includes more than three thousand highly recommended science titles, is updated regularly, and requires a subscription.

#### **Book Links**

#### http://www.ala.org/ala/productsandpublications/periodicals/booklinks/booklinks.htm

A magazine designed for teachers, librarians, library media specialists, booksellers, parents, and other adults interested in connecting children with high-quality books. Each issue focuses on a curriculum area including science, social studies, language arts, history, the arts, geography, or multicultural literature.

#### **NC Wise Owl**

#### http://www.ncwiseowl.org

Includes subscription databases. Ex: InfoTrac is made up of a Kids Edition for elementary students, a Junior Edition for middle schoolers, and both the Student Edition and InfoTrac Gold Reference Edition for the high school and parent community. Ex: Grolier Online offers two encyclopedias.

#### Research Guide for Children's Literature

#### http://www.wcu.edu/23491.asp

A Western Carolina University website created by librarian Beth McDonough. Use this guide to locate the best resources related to the study of children's or young adult literature.

#### Database of Award Winning Children's Literature (DAWCL)

#### http://www.dawcl.com/

More than 4,500 records from 57 awards across six English-speaking countries (United States, Canada, Australia, New Zealand, England, and Ireland).

#### **Titlewave**

# http://www.titlewave.com/

Through *Library Titlewave* you can access over one million available K-Adult books and curriculum-related audiovisual materials. Through *Curriculum Titlewave* you can access lists of books that support specific state and/or national curriculum standards, Guided Reading and Leveled Reading lists, state-specific lists, and lists of books on popular curriculum-related subjects. Free registration required.

# VI. Recommended Professional Resources on Integrating Science and Reading

- Akerson, V. L. (2001). Teaching science when your principal says "Teach Language Arts." *Science & Children*, 38(7), 42-47.
- Akerson, V.L. & Young, T. A. (2004). Nonfiction know-how: Surefire strategies for effectively using nonfiction trade books in your science classroom. *Science & Children*, *41*(6), 48-51.
- Allen, J. (2004). Tools for teaching content literacy. Stenhouse Publishers: Portland, ME.
- Ansberry, K. R. & Morgan, E. R. (2005). *Picture-perfect science lessons: Using children's books to guide inquiry—Grades 3-6.* NSTA Press: Arlington, VA. ISBN: 0-87355-243-1
- Ansberry, K. R. & Morgan, E. R. (2007). *More picture-perfect science lessons: Using children's books to guide inquiry—K-4.* NSTA Press: Arlington, VA.
- Buxton, C. A. & Austin, P. (2003). Better books, better science teaching. *Science & Children, 41*(2), 28-32.
- Duke, N. K. (2001.) *Using nonfiction to increase reading achievement and world knowledge*. <a href="http://www.scholastic.ca/education/professional\_resources/professional-articles/using-nonfiction.pdf">http://www.scholastic.ca/education/professional\_resources/professional-articles/using-nonfiction.pdf</a>
- Duke, N. K. & Bennett-Armistead, V. S. (2003). *Reading & writing informational text in the primary grades: Research-based practices.* Scholastic: New York.
- Fredericks, A. D. (2003). The ins and outs of guided reading. Science & Children, 40(6), 22-27.
- Harms, J. M. & Lettow, L. J. (2000). Poetry and the environment. Science & Children, 37(6), 30-34.
- Harvey, Stephanie. (1998). *Nonfiction matters: Reading, writing, and research in grades 3-8.* Stenhouse Publishers: York, ME.
- Holliday, W. G. (2003). Teaming up for science & reading success. Science & Children, 40(8), 38-40.
- Laminack, L. L. & Wadsworth, R. M. (2006). *Reading aloud across the curriculum: How to build bridges in Language Arts, Math, Science, and Social Studies.* Heinemann: Portsmouth, NH.
- Mayer, D. A. (1995.) How can we best use children's literature in teaching science concepts? *Science and Children*, 32(6), 16–19, 43.

- McKee, J. & Ogle, D. (2005). *Integrating instruction: Literacy and Science*. Guilford Press: NY. ISBN: 1-59385-157-X.
- National Science Teachers Association. (2003). *Mixing it up: Integrated, interdisciplinary, intriguing science in the elementary classroom*. NSTA Press: Arlington, VA.
- Melber, L. M. (2003). True tales of science. Science & Children, 41(2), 24-27.
- Rice, D. C. (2002). Using trade books in teaching elementary science: Facts and fallacies. *Reading Teacher*, *55*, 552-565.
- Rice, D. C., Dudley, A. P., & Williams, C. S. (2001). How do you choose science trade books? *Science & Children, 38*(6), 18-22.
- Saul, W., Reardon, J., Pearce, C., Dieckman, D., & Neutze, D. (2002). *Science workshop: Reading, writing, and thinking like a scientist.* Portsmouth, NH: Heinemann.
- Tovani, C. (2004). *Do I really have to teach reading? Content comprehension, grades 6-12.* Stenhouse Publishers: Portland, ME.
- Worth, K., Winokur, J., Davis, M., & Heller-Winokur, M. (2009). *The Essentials of Science and Literacy: A Guide for Teachers.* Heinemann: Portsmouth, NH.

# VII. Reference List—Outstanding Science Trade Book Lists

- Barman, C., Bricker, P., Carlisle, P., Clements, C., Crowther, D., Curton, C., Knoell, D. L., Rearden, K., Sharp, L., Texley, J. & Wiig, D. (2008). Outstanding science trade books 2008. *Science & Children*, 45(7), 43-50. (Reprinted in *Science Scope*, 31(7), 51-58 and *Science Teacher*, 75(3), 47-54.). Available online at <a href="http://www.nsta.org/publications/ostb/">http://www.nsta.org/publications/ostb/</a>.
- Barman, C., Bricker, P., Carlisle, P., Clements, C., Crowther, D., Curton, C., McLelland, C., Pratt, N., & Sharp, L. (2007). Outstanding Science Trade Books 2007. *Science & Children, 44*(7), 41-48. (Reprinted in *Science Scope, 30*(7), 43-50 and *Science Teacher, 74*(3), 39-46.). Available online at http://www.nsta.org/publications/ostb/.
- Barman, C., Clements, C., Crowther, D., Curton, H., Gillam, D., McLelland, C., Pratt, N., Royce, C., & Shackleford, B. Outstanding science trade books for students K-12. (2006). Available online at <a href="http://www.nsta.org/publications/ostb/">http://www.nsta.org/publications/ostb/</a>.
- Barman, C., Clements, C., Crowther, D., Giddings, L.S., Gillam, D., McLelland, C., Olsen, L., Pratt, N., Roepke, C., Shackleford, B., Weiss, V., & Wojnowski, D. Outstanding science trade books for students K-12. (2005). Available online at <a href="http://www.nsta.org/publications/ostb/">http://www.nsta.org/publications/ostb/</a>.
- Billups, C., Chesley, N., Crocker, B., Flynn, S., Lanius, J.C., McDonough, N., Ostlund, K., Rich, Steve, Smith-Walters, C. Outstanding science trade books for students K-12. (2011). Available online at <a href="http://www.nsta.org/publications/ostb/">http://www.nsta.org/publications/ostb/</a>.
- Billups, C., Chesley, N., Flynn, S., Knoell, D.L., Launius, J.C., McDonough, N., Rearden, K., Smith-Walters, C., Wiig, D. Outstanding science trade books for students K-12. (2010). Available online at <a href="http://www.nsta.org/publications/ostb/">http://www.nsta.org/publications/ostb/</a>.
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- Buxton, C. A. & Austin, P. (2003). Better books, better science teaching. *Science & Children, 41*(2), 28-32.
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