

## Reading Essentials in Science Correlated to Full Option Science System (FOSS) for Grades K-2

Module	Description (From FOSS Website)	Reading Essentials Discovering and Exploring Science
The Insects Module	The Insects Module provides experiences that heighten students' awareness of the diversity of animal forms. They come to know firsthand the life sequences of a number of insects. In each investigation an insect is introduced, and students observe structures and behaviors, discuss their findings, and ask questions. Students observe life cycles of insects and compare the stages of metamorphosis exhibited by each species.	Collecting and Sorting Insects Needs in Nature Animal Records Who Lives Here? Growing a Pumpkin How Many Baby Animals?
The Animals Two by Two Module	The Animals Two by Two Module provides young students with close and personal interaction with some common land and water animals. Appropriate classroom habitats are established, and students learn to care for the animals. In four activities the animals are studied in pairs. Students observe and care for one animal over time, and then they are introduced to another animal similar to the first but with differences in structure and behavior. This process enhances opportunities for observation, communication, and comparison.	Dogs Soft to Touch Is it Living? Interpreting Data This is Me Animals and their Babies Big and Little Rivers The Long and Short of It Which One Doesn't Belong? Shells Nature or Not? Night Animals How Many Do you See? Scaly and Scary Circles all Around Fossils Needs in Nature Fast as a Cheetah, Slow as a Sloth Who Lives Here? Can You Guess What It Is? Our Sun How Many in All? Our Caves A Butterfly's Life How Many Baby Animals? Freaky Fish How Does it Grow? Collecting and Sorting Insects Is it Heavier Than an Elephant?

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The Wood and Paper Module	In the Wood and Paper Module students are introduced to a wide variety of woods and papers in a systematic way. They will observe the properties of these materials and discover what happens when they are subjected to a number of tests and interactions with other materials. Students learn that wood and paper can be recycled to create new forms of paper or wood that have new properties. Finally, they use what they know about the properties of these marvelous materials as they change wood and paper into a variety of products. Throughout the module, students have ample opportunities to compare different kinds of wood, different types of paper, and wood and paper. The concept of trees as natural resources is introduced.	What is Made of Wood? What is the Solution? Sorting
The Fabric Module	In the Fabric Module students are introduced to a wide variety of fabrics in a systematic way, so that they become familiar with fabrics' properties, discover what happens when they are tested, and discover how they interact with other materials, including water.	Nature or Not?
The Balance and Motion Module	We live in a dynamic world where everything is in motion, or so it seems. But not everything is moving the same way. Some things move from one place to another. Other things go around and around in a rotational motion. Still other things are stationary, stable for a time, balanced on a thin line between stop and go. These are the global phenomena that students experience in this module, Balance and Motion.	Wheels Movements Magnets Energy First in Line Is it Heavier than an Elephant? How Much Does it Weigh? Building Roads Electricity Push and Pull Reflections Making Observations Scream Machines Magnets What is Missing? What's the Solution? Visiting Grandma Making a Space Shuttle Big Machines, Small Machines Scream Machines What if We Measured Speed as Feet per Hour?

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The Pebbles, Sand, and Silt Module	The Pebbles, Sand, and Silt Module consists of four sequential investigations, each designed to introduce concepts in earth science. The investigations provide experiences that heighten students' awareness of rocks as earth materials and natural resources. They will come to know rocks by many names and in a variety of sizes. Pebbles and sand are the same material—just different sizes.	Rock and Minerals Nature or Not? Amazing Mud Caves Diamonds Magnets Fossils How Does it Grow? The Dirt Under Your Feet
The New Plants Module	The New Plants Module provides experiences that heighten students' awareness of the diversity of life in the plant kingdom. Students care for plants to learn what they need to grow and develop. They observe the structures of flowering plants and discover ways to propagate new plants from mature plants (from seeds, bulbs, roots, and stem cuttings). They observe and describe changes that occur as plants grow, and organize their observations on a calendar and in a journal.	Symmetry in Nature Is it Living? Nature or Not? Shapes in Nature Needs in Nature Our Sun One Plant, Many Parts Nature's Colors How Many do you See? Circles all Around Growing a Pumpkin Caves How Does it Grow?

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The Air and Weather Module	The Air and Weather Module consists of four sequential investigations, each designed to introduce concepts in earth science. The investigations provide opportunities for young students to explore the natural world by using simple tools to observe and monitor change.	Weather Changes Day Sky Hurrican Fury Night Sky How Many do you See? Electricity The Four Seasons Shapes in Nature Technology and Natural Disasters Can You See the Wind? Circles all Around Wild Weather Our Sun Motion in Space Caves
The Solids and Liquids Module	The Solids and Liquids Module provides experiences that heighten students' awareness of the physical world. Matter with which we interact exists in three fundamental states: solid, liquid, and gas. In this module first and second graders have introductory experiences with two of these states of matter, solid and liquid.	Water Baking a Cake Hot and Cold What Will you Lose? Sink of Float? Making Observations Water all Around Describe It