



**NEW**

## **FOSS Observing Nature Module, Pre-Kindergarten** **Even the youngest** **scientists learn by doing.**

The new FOSS® Observing Nature Module for pre-kindergarten focuses on learning science the FOSS way: hands on and minds engaged. This full-year module invites transitional kindergarten students to observe trees and the natural objects around plants firsthand. Students enjoy age-appropriate experiences with life, earth, and physical science phenomena, establishing a foundation for more advanced learning in kindergarten and beyond.





## FOSS Observing Nature Module, Pre-Kindergarten

# Teach them science the way they learn it.

Curious minds in the pre-reading years learn best through multisensory experiences. The FOSS approach of hands-on active investigation is a perfect fit for young students' cognitive abilities, establishing an enthusiasm for science that sets the stage for exploration of phenomena and future NGSS proficiency.

### **There's so much they can do.**

Through the seasons, the FOSS Observing Nature Module gives children multiple opportunities to observe trees and the ecosystem around them: sorting and comparing leaves, examining rocks and soil, and observing the interaction of plants and animals. Then they use trees as natural resources, layering and gluing pieces of wood to form plywood. As they do so, the students move beyond observation to assume the roles of young engineers.

### **Five age-appropriate investigations.**

The early learning experts at the Lawrence Hall of Science have structured each part of FOSS Observing Nature to relate to pre-K students at their level. Materials are simple. Examples and directions are clear. Students draw, share, and build verbal skills. Short whole-class activities are followed by students working with materials at their tables or on the floor. The activities are designed to support the flexibility of your classroom — students can work individually, in pairs, or in groups. Materials are organized for a class of up to 32.

### **Everything needed for a year of teaching and learning.**

All key components are provided, including:

- *FOSS Investigations Guide: Observing Nature*
- *FOSS Science Resources: Observing Nature* (1 big book and 32 copies of the student book)
- Equipment kit: science tools for classes of up to 32 students
- Consumable materials for three classes of 32 students
- Access to FOSSweb resources for teachers and students
- Student-facing materials in English and Spanish
- Illustrated word-wall vocabulary cards
- Recommended Pre-K books for each investigation

# Lasts all year. Fits every need.

The new FOSS® Pre-K Observing Nature Module is the ideal initial step in the FOSS scope & sequence. It's also an effective first experience with scientific learning and sets the stage for phenomena-based instruction promoted by NGSS, Common Core, and other state standards.

## FOSS® Middle School Scope & Sequence

| Grade | Integrated Middle Grades           |                                     |                                    |                 |   | STEM                                   |
|-------|------------------------------------|-------------------------------------|------------------------------------|-----------------|---|--|
| 8     | Heredity & Adaptation*<br>ES,LS    | Electromagnetic Force*<br>PS, ES, E | Gravity & Kinetic Energy*<br>PS, E | Waves*<br>PS, E | Planetary Science<br>PS, ES             | Variables & Design†<br>Grades 5-8<br>E |
| 7     | Chemical Interactions<br>PS, ES, E |                                     | Earth History<br>PS, ES, LS        |                 | Populations and Ecosystems<br>ES, LS, E |  |
| 6     | Weather and Water<br>PS, ES, E     |                                     | Diversity of Life<br>LS            |                 | Human Systems Interactions*<br>LS       |  |

PS: Physical Science content, ES: Earth Science content, LS: Life Science content, E: Engineering content

\*Half-length courses

## FOSS® Pre-K–5 Scope & Sequence

| Grade | Physical Science               | Earth Science            | Life Science       | STEM              |
|-------|--------------------------------|--------------------------|--------------------|-------------------|
| 5     | Mixtures & Solutions           | Earth & Sun              | Living Systems     | Sound Design†     |
| 4     | Energy                         | Soils, Rocks & Landforms | Environments       |                   |
| 3     | Motion & Matter                | Water & Climate          | Structures of Life |                   |
| 2     | Solids & Liquids               | Pebbles, Sand & Silt     | Insects & Plants   | Forces in Action† |
| 1     | Sound & Light                  | Air & Weather            | Plants & Animals   |                   |
| K     | Materials & Motion             | Trees & Weather          | Animals Two by Two |                   |
| Pre-K | NEW Full-year Observing Nature |                          |                    |                   |

†STEM courses and modules can be purchased as an enrichment to the FOSS curriculum or purchased separately for STEM electives or extracurricular activities.

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