

Changes in CA K-5

FOSS California, notes on changes for FOSS CA Consultants, 2-22-07

Changes overall to all modules K–5:

- Three ways to access content: active investigation, reading, and assessment. This is described in the navigation guides in print and online.
- Teacher guide no longer in folios but numbered sequentially.
- More tabs, including a Mathematics in Science, a Reading and Writing in Science, teacher answers (gr 3–5), and checklists.
- No FOSS Introduction . The intro material is included in the Module Overview.
- Reading is no longer in a separate folio or chapter but incorporated into the flow of the Investigation.
- Three modules at each grade level.
- FOSSweb/ CA is a separate website
- Teacher preparation videos will be done over the next year and be available online
- For grades 3–5, Measurement items included in the kit
- CA Investigation and Experimentation Standards explicitly included throughout all of the grade level modules as appropriate
- EL strategies in sidebar for Wrapping Up and Reading

Kindergarten

- Assessment treatment, no written benchmark assessments
- Notebook (not really structured)
- Tradebooks in kits
- Trees serves more than one strand as well as Wood and Paper
- No review questions in books
- In teacher guide only have one duplication master section
- No math problems of the week.

Module specific changes in Kindergarten

Trees: Landforms cards are new; How Do We Learn book; class calendar for monitoring weather changes

Wood and Paper: Investigation 4 has a new part where students work with water, freezing and melting to see the change in its properties.

FOSS Science Stories Fabric included in Investigation 5. Students sort materials based on kind of material in order to recycle (use magnets to find steel).

Animals Two by Two: Includes book called *Some Smug Slug* (Stories sometimes give plants and animals attributes they do not really have)

Changes in CA K-5

Grade 1 and 2

- Duplication masters are separated into Teacher masters and Science Notebook
- Assessment. End-of-module assessment (performance, interview, written)
- Resources books have questions after each reading and science notebook masters with those questions on them

Module specific changes in grade 1-2

Solids and Liquids: New part in Investigation 4, Changing Properties, where students investigate what happens when solids (chocolate, margarine) and liquids (water) are heated and cooled.

Plants and Animals: deleted Brassica and added Investigation 3, Terrariums Included Habitat place mats and Habitat Organism Cards (Inv 3) which are also turned into simulations on FOSSweb. New reading in Science Resources.

Insects and Plants: added Brassica , deleted cricket and waxworm investigations. New readings in Science Resources

Balance and Motion: Went from 3 investigations to 6 investigations; added First Straw (Investigation 1); added some Physics of Sound activities (Inv 5, Back and Forth) ; added magnet exploration (Inv 6, magnets and Tools); video on tools included in Investigation 6.

Pebbles: Added a FOSS balance so students have experience measuring mass (of pebbles); graduated cylinder to measure volume of water; video on fossils in Investigation 4 ; granite for students to observe minerals in rocks in Investigation 1

Grade 3-5 modules

- Grade-level books, Science Resources
- More specific pacing schedule in the Overview for grade 3–5
- Duplication masters are separated into Teacher Masters and Science Notebook
- Assessment is divided into embedded chapter and benchmark chapter
- Self-assessment is a part of the benchmark assessment review strategy
- Use of Science Notebooks (see Overview and Materials chapters for description of formats for science notebooks)

Changes in CA K-5

- Teacher Answers chapter
- Measurement tools included in the kit

Module Specific Changes

Structures of Life: Habitat organism cards to look at organisms in different environments; video on adaptations

Matter and Energy, new development

Sun, Moon, and Stars, new development

Solid Earth: Earth Materials and stream table investigations from Landforms; video on volcanoes

Environments: Food web cards (Monterey Bay, Mono Lake, Woods Ecosystem); videos on Pollination and Seed Dispersal from Missouri Botanical Garden; changed order of investigations and combined two investigations into 1 (Salt of the Earth and Water Tolerance)

Magnetism and Electricity: Investigation 1 has part on north and south poles of magnets; Investigation 2 begins with investigation on charge.

Mixtures and Solutions: deleted Concentration and added Investigation on periodic table. Also added atom tiles and atom disks to introduce how atoms are rearranged in a chemical reaction.

Living Systems: One investigation from Food and Nutrition plus new development

Water Planet: New Solar System Investigation 1, uses Swingers from Variables as Investigation 2, investigations from Solar Energy (Heat the Earth), Weather and Water (dealing with air pressure and weather); California water map

Videos new to program

Missouri Botanical Garden (Gr 1, 2, and 4 Life Science)

Fossils, Gr 2 Pebbles, Sand, and Silt

Schlessinger Videos (8)

Gr 2 All about Simple Machines

Gr 3 All about Animal Adaptations

Gr 3 All about the Moon; All about the Stars

Gr 3 All about Solids, Liquids, and Gases; All about Light; All about the Transfer of Energy

Gr 5 All about Volcanoes