Activities for Preschool-K (ages 3-5)

GROWING UP WILD. Project Wild. Offering a wide range of activities and experiences for children ages 3-7, Growing Up WILD provides an early foundation for developing positive impressions about the natural world and lifelong social and academic skills. Written for early childhood educators, this guide features 27 field-tested, hands-on, nature-based activities in a full-color 11”x17” activity guide. Includes crafts, art projects, music, conservation activities, reading and math connections. Involves social, emotional, physical, language, and cognitive domains to foster learning and development in all areas. Correlated to the National Association for the Education of Young Children (NAEYC) Standards and the Head Start Domains. For Growing Up Wild training, please contact your state coordinator at projectwild.org. #EE-14084. $24.95.

SMALL WONDERS, Nature Education for Young Children. Garrett, Thomas. This creative activity guide contains nearly 300 hands-on experiments, crafts, games and activities. All have been field-tested in the classroom, and honored by feedback from preschool teachers working daily with hundreds of children ages 3-5. Includes reproducible handouts, activities, game cards, matching cards, and worksheets to duplicate and send home. #EE-17519. $24.95.

INTRODUCTION TO TREES SERIES (EARLY CHILDHOOD EDUCATION). Freeman. Perfect introduction to trees for young children ages 3-5. Picture books with simple captions talk about the trees parents and teachers can often find growing locally: maples, oaks, palms, and pines. Includes glossary, notes to teachers and internet links. $5.95 each.
- MAPLE TREES. #BP-13342. $5.95 each.
- OAK TREES. #BP-13343. $5.95 each.
- PALM TREES. #BP-13344. $5.95 each.
- PINE TREES. #BP-13345. $5.95 each.
ALL FOUR. #BP-20274. $23.80. $21.95.

BABY ANIMALS PUZZLE PAIRS. Children ages 3-5 match animal mothers with their babies. This pre-reading game begins the process of connecting words with their meaning—in this case a selection of animals that children know. Large pieces make for easy handling by small hands. #G-17237. $15.95.

REAL SCIENCE IN PRESCHOOL: Here, There and Everywhere. Neil. Authentic, hands-on science learning can take place every day throughout the classroom as well as outdoors. Lay the groundwork for understanding science by teaching observation, classification, experimentation, prediction, drawing conclusions, and communicating ideas. Create science-related activities based on group interests. #B-18012. $25.95.

BUGS, BUGS, BUGS! 21 Songs and 250 Activities for Young Children. Schiller. Young children ages 3-5 are fascinated by insects. This engaging book combines science and nature activities with song, literature and vocabulary building. Itsy Bitsy Spider and 20 popular sing-along songs integrate art, sand and water play, science, field trips and discovery. Includes book and CD. #EE-15197. $19.95.

NATURE CIRCLr CARDS. Includes 15 nature experiences and 15 open-ended questions that encourage children ages 3-7 to explore the world outside. Perfect for outdoor educators and parents of young children. #G-18047. $5.95 each. 20 or more, $5.19 each.

SCIENCE IS SIMPLE, Over 250 Activities for Preschoolers. Ashbrook. Understanding the world of science is an essential skill. This innovative book encourages children ages 3-6 to predict outcomes, ask questions, and investigate answers. Watch preschoolers develop essential observational and analytical skills as they eagerly jump into the hands-on, interactive process that is science and understand the role it plays in their everyday lives. #B-18013. $19.95.

SCIENCE ADVENTURES, Activities for Young Children. Sherwood, Williams, Rockwell. This resource features more than 125 activities that open up a world of exploration through nature activities in urban, suburban, and rural settings. The authors have adapted the kindergarten science standards set by the National Academy of Sciences to make them developmentally appropriate for preschool children. Each chapter focuses on one of these standards, and the activities within each chapter progress from simple to more complex. Also incorporates assessment components. Ages 3-5. #B-17001. $24.95.

FROG MATH: Predict, Ponder, Play. Gems. Frogs are the focal point of mathematical explorations as students classify and sort common objects and graph results. Pond game teaches strategic thinking skills and probability. Six sessions, Grades K-3. #GEMS-2176. $14.95.
Activities for Preschool-K (ages 3-5)

**W A T C H  I T  G R O W  S E R I E S.** Rustad. Designed specifically for children ages 3-6, these colorful books capitalize on young children’s natural interest in insects and other arthropods they encounter in the garden or classroom. Easy to read text complements color photographs. $5.95 each.

- **PAINTED LADY BUTTERFLIES.** #INV-17029.
- **MILKWEED BUGS.** #INV-17028.
- **MEALWORMS.** #INV-17027.
- **PAINTED LADY BUTTERFLIES.** #INV-17029.
- **MILKWEED BUGS.** #INV-17028.
- **MEALWORMS.** #INV-17027.

**ALL FIVE BOOKS IN THE WATCH IT GROW SERIES.** #INV-20172. $29.75. $27.95.

**W A T E R  W O R K S:** A Physical Science Unit for High-Ability Learners in Grades K-1. Center for Gifted Education. Water Works is a field-tested physical science unit for children in grades K-1. This unit engages students in scientific investigations as they closely observe and experiment with water. Students are transformed into scientists who notice, react to, reflect on, and discover more about force and change. The concept of change is reinforced while students explore the characteristics of items that sink and float, experiment to make objects float, and examine how materials interact with water. Water Works utilizes a hands-on, constructivist approach that allows children to build their knowledge base and skills while they explore science topics through play and planned investigations. #WTR-18014. $39.95.

**EXPLORE WATER WITH YOUNG CHILDREN (Teacher’s Guide).** Chalifour, Worth. Since we live on a water-based planet, it would seem logical that from a very early age children should become familiar with concepts related to water’s flow, appearance, and effect on objects. Supports the early development of important science inquiry skills such as questioning, investigating, discussing, and formulating ideas. Ages 3-5. #WTR-13355. $25.95.


**P U P P E T S  F O R  T R E E  H O M E S  A C T I V I T Y  B O O K :**

- **GREAT HORNED OWL** 18”. #P-11281. $49.95.
- **FLYING SQUIRREL** 15”. #P-16229. $15.95.
- **GREY SQUIRREL** 12”. #P-14753. $34.95.
- **ADULT RACCOON** 23”. #P-8609. $47.95.

**TREE HOMES BOOK PLUS ALL SIX PUPPETS SHOWN ABOVE.** #S-20204. $200.65. $189.95.

**GROUP SOLUTIONS: Cooperative Logic Activities.** GEMS. Each student’s clue to a problem is shared with others in order to solve the problem. Parallels the manner in which advances in math and science are made through team participation. Features 50 engaging activities for students in grades K-4. #GEMS-2179. $27.95.

**PENGUINS AND THEIR YOUNG.** GEMS. Children explore the behavior and adaptations of emperor penguins in their icy home. Four activities utilize readily available materials (ice, corks, and paper bags) for penguin patterns. Colorful 4 high penguin poster is included. Preschool-grade 3. #GEMS-1081. $19.95.

**PENGUIN PUPPET** 9”, #P-183. $15.95.

**BEE PUPPET** 8”, #P-180. $15.95.

**BUZZING A HIVE.** GEMS. Teaches students bee social behaviors, communication, and hive structure. Students construct hive, bees, flowers, and pollen, participating in role-playing and bee dancing, discovering how bees communicate. Ten sessions, preschool - grade 3. #GEMS-1081. $19.95.

**PENGUIN PUPPET** 10” tall. #P-6095. $13.95. 10” long. #P-6093. $17.95.

**GREY SQUIRREL** 12”. #P-14753. $34.95.

**ADULT RACCOON** 23”. #P-8609. $47.95.

**GREAT HORNED OWL** 18”. #P-11281. $49.95.

**BLACK BEAR** 9”. #P-6095. $13.95.

**SKUNK** 9” tall. #P-6095. $13.95.
Activities for Preschool-K (ages 3-5)

INTRODUCTORY FISH PRINTING DISCOVERY KIT. Contains everything you need to make your own fish prints. Includes three different fish (young trout, skate and grouper), three tubes of block ink (silver, blue, dark yellow), ink brayer (rubber roller), three plastic plates for mixing ink, descriptions of each fish, and directions. #KIT-19001. $74.95.

FRESHWATER FISH PRINTING DISCOVERY KIT*. Contains everything you need to make your own fish prints of freshwater species. Includes three different fish (green sunfish, young carp, young salmon), three tubes of block ink (green, light red, brown), ink brayer (rubber roller), three plastic plates for mixing ink, fish descriptions, and directions. #KIT-19002. $74.95.

SALTWATER FISH PRINTING DISCOVERY KIT*. Contains everything you need to make your own fish prints. Includes three saltwater fish (jack, opal eye, squirelfish), three tubes of block ink (silver, red, brown), ink brayer (rubber roller), three plastic plates for mixing ink, descriptions of each fish, and directions. #KIT-19003. $74.95.

FISH PRINTING offers a perfect way to combine science (fish diversity, anatomy, ecology), art (create colorful, framed displays), math (measure and count fins, proportional size, count fin rays), reading (use with fish stories) and creative writing (write fact or fiction about the fish) while practicing the Japanese art of Gyotaku.

FRESHWATER - STREAMS, PONDS, LAKES:
- BLUEGILL, Young, 6”. #FP-12155. $10.95.
- BLUEGILL, Adult, 9”. #FP-9995. $13.95.
- CARP, Young, 6”. #FP-18119. $11.95.
- CARP, Adult, 13”. #FP-9992. $14.95.
- DRUM, 10”. #FP-9993. $12.95.
- GREEN SUNFISH, 5”. #FP-18118. $10.95.
- LARGEMOUTH BASS, Young, 5”. #FP-18116. $10.95.
- LARGEMOUTH BASS, Adult, 11”. #FP-18156. $13.95.
- PERCH, LAKE, 10”. #FP-9994. $12.95.
- SALMON, Adult, 8”. #FP-18508. $14.95.
- SALMON, Adult, 18”. #FP-14028. $18.95.
- NORTHERN PIKE, Young, 6”. #FP-18117. $10.95.
- NORTHERN PIKE, Adult, 15”. #FP-14469. $17.95.
- TROUT, Young, 7”. #FP-18120. $11.95.
- TROUT, Adult, 12”. #FP-9993. $14.95.
- WALLEYE, 18”. #FP-14027. $18.95.

COLLECTION OF ALL SIXTEEN FRESHWATER REPLICA FISH PRINTING INK FORMULAS. #FP-20244. $22.20. $21.11.50.

SALTWATER - COASTAL TO OPEN OCEAN:
- FLounder (bottom), 12”. #FP-9996. $17.95.
- Grouper (deep), 7”. #FP-18124. $14.95.
- HogFish (tropical reef), 6”. #FP-18121. $11.95.
- Jack (open ocean), 7”. #FP-18125. $12.95.
- OpALeye (tidepools), 6”. #FP-18122. $12.95.
- SAlmon, Adult, 18”. #FP-14028. $18.95.
- Sea Star (tidepools), 7”. #FP-9990. $12.95.
- SkATe (coastal), 9”. #FP-9997. $12.95.
- SquirrelFish (tropical reef), 6”. #FP-18123. $12.95.

COLLECTION OF ALL NINE SALTWATER REPLICA FISH PRINTING INK FORMULAS. #FP-20245. $28.85. $21.95.

BLOCK PRINTING INKS. Ideal for making fish prints on any paper. Unlike other inks, these wash off easily with soap and water. Mix colors to make unique shades. Each 37c (1.25 ounces) tube inks about 40 nine-inch fish. $3.95/tube. Set of all 16 colors, #T-20202. $63.20. $58.95.

GREEN. #T-9931.
RED. #T-9932.
LIGHT RED. #T-9933.
BLUE. #T-9934.
YELLOW. #T-9935.
DARK YELLOW. #T-9936.
BROWN. #T-9937.
BLACK. #T-9938.
INK EXTENDER. 37 cc tube. #T-9947. $3.95.
INK RETARDER. 37cc tube. #T-9948. $3.95.

PLASTIC MOLDS. These rugged clear plastic molds can be filled with plaster of Paris, clay, sand, soap, paper mache, chocolate, Jelli-O, or food. Students can taste science now or just create fun food items that are sure to get comments. With the clay and paper casts, dry and paint unique designs on the casts. Great fun for the classroom, nature center, or home. Average size of mold is 3” in diameter. $6.95 per set.

INSECTS AND SPIDERS. Includes butterfly, spider, fly, and ladybug. #KIT-14243. FOSSILS (shown). Includes ammonite, claw, trilobite, crab, and fish. #KIT-14244.

AQUATIC LIFE. Includes shell, seahorse, sea star, angelfish, goldfish. #KIT-14245.

BODY POETRY: Animal Action Cards. Stretch, strut, waddle, prance and stroll! Use these cards to lead children in fun, healthy exercises with or without music. The 16 cards are separated into three categories: easy, intermediate and challenging. On the back of each card are three related walking patterns. Includes guide with facts about each animal, exercise routines and ideas for integrating this physical activity into the curriculum. Exercise fun for pre K-grade 1. #G-17012. $24.95 each. 6 or more, $22.95 each.

INSECT AND SPIDER FOLD-UPS. These pre-punched white fold-ups are perfect for activity tables in the classroom or nature center. Color, paint or decorate with beads, leaves or bark. Create natural habitats for these creations out of boxes or display these on windows or posters. Twenty-four (divided equally among grasshopper, bee, butterfly, ladybug and spider). Ages 4-7. #T-13191. $7.45 each.

SURVIVE AND THRIVE: A Life Science Unit for High-Ability Learners in Grades K-1. Center for Gifted Education. Provides students an opportunity to study the characteristics and natural environments of animals. The over arching concept of change guides students as they distinguish the features of animals, determine their basic needs to survive, and observe specific behaviors. Contains simulations of real-world problems—students experience the work of real science by handling data, analyzing information, and evaluating results. #B-18018. $39.95.

HIDE A BUTTERFLY. GEMS. Through development of their own school play, The Butterfly Play, children learn about protective coloration and make a mural of a meadow in blossom with paper butterflies and birds. Three sessions of fun for students in preschool through third grade. #GEMS-1080. $11.95.

CATERPILLAR/BUTTERFLY. Green caterpillar (13”) reverses into yellow swallowtail (16” wingspan). Velcro holds caterpillar shape until you open up and reverse out into a swallowtail. #P-171. $25.95.

Acorn Naturalists | New Resources for the Trail and Classroom®
Activities for Preschool-K (ages 3-5)

STACKING BLOCKS. These stacking blocks teach counting and structure and motor skills while improving observation skills. Children build a giant Sequoia or explore the plants, animals, and native cultures of the Southwest. Ten blocks in each set offer creative play for children ages 3-6.

TALLEST TREES BLOCKS. #G-17239. $21.95.
SOUTHWEST BLOCKS. #G-17240. $19.95.

SET OF BOTH STACKING BLOCKS.
#G-20173. $43.90. $37.95.

TALLEST TREE GROWTH CHART. This majestic six-foot tall (17” wide) growth chart tracks a child’s growth over time, using the world’s tallest tree, the giant Sequoia, as a backdrop. This chart makes an attractive, instructive addition to any classroom, nature center or home. Proceeds from the sale of this chart help support the Golden Gate National Park Conservancy, a non-profit organization dedicated to preserving Golden Gate National Park’s wildlife and plants.
#G-17238. $15.95 each. 20 or more, $13.95 each.

ANIMAL TUBES. Each tube contains a minimum of 10 animal figures made from phthalate-free plastic. Ideal for counting exercises, creating dioramas, or teaching about animals and their ecosystems. Each set comes in a reusable zippered container, perfect for the classroom, nature center, or home. Ages 3-8.
$9.95 each. Set of all six, #G-20205. $59.70. $56.95.

BUTTERFLIES. #G-17018.
INSECTS. #G-17019.
NORTH AMERICAN ANIMALS. #G-17020.
RAINFOREST ANIMALS. #G-17021.
RIVER ANIMALS. #G-17022.
ZOO ANIMALS. #G-17023.

ANIMAL BINGO FOR PRESCHOOLERS. A fun way to help children ages 3-5 develop basic recognition skills. Attractively boxed set includes six game cards, 36 playing chips and a drawstring bag. Winner, Oppenheim Platinum Award.
#G-17035. $15.95.

THE BUG GAME: Insects and Other Backyard Creatures. Ampersand Press. A matching and memory game that introduces children ages 4-7 to the world of insects right outside their door. Replace the “yuk” response with the inquisitive “Gee, what is it?” question! Includes instructions for three levels of play along with a full-color poster of insects, glossary, fact sheets, and cards. #G-2820. $13.95.

LARGE TABLETOP TRIPOD MAGNIFIER. Helps inquisitive kids ages 5-9 get a closer look at insects, rocks, flowers, leaves, or their hands! Simply place this 4x magnifier on a table or floor and view objects under the large 7” high x 9” diameter magnifier.
#T-18020. $34.95 each. 12 or more, $31.95 each.

THE PINE CONE BIRD FEEDER KIT. This unique kit contains 40 pine cones (4”-5”) along with complete instructions and recipes for making 40 feeders that birds can’t resist. All parts of the finished feeder are biodegradable, so if a clever squirrel makes off with one, the feeder will turn into compost. Experiment with different recipes and a variety of hanging locations. Compare seasonal differences in species. Perfect classroom, camp, nature center, or home activity for ages 5-11.
#KIT-20140. $24.95. 12 or more, $21.95.

CHILDREN’S SCIENCE AND NATURE BINGO GAMES. These colorful games are perfect for getting children ages 6-9 interested in science and nature. Use as supplemental activities or as part of subject area lesson plans. Each of these sets contain 42 illustrated bingo cards with information on the back of the card. Includes six playing boards and plenty of bingo chips. $13.95 each.

BIRD BINGO. #G-50031.
BODY BINGO. #G-20060.
BUG BINGO. #G-50030.
BUTTERFLY BINGO. #G-52018.
CALIFORNIA BINGO. #G-50025.
CAT BINGO. #G-50823.
DINOSAUR BINGO. #G-51468.
DOG BINGO. #G-50824.
FISHING BINGO. #G-14489.
GARDENING BINGO. #G-17000.
HORSE BINGO. #G-14490.
NATURE BINGO. #G-50026.
OCEAN BINGO. #G-50028.
REPTILE BINGO. #G-51410.
SCIENCE BINGO. #G-50027.
SPACE BINGO. #G-16192.
WEATHER BINGO. #G-14491.
WILDFLOWER BINGO. #G-50029.
WILDLIFE BINGO. #G-15211.

COMPLETE SET OF ALL 19 SCIENCE AND NATURE BINGO GAMES.
#G-20175. $265.05. $249.95.

PINE CONE BIRD FEEDER KIT. This unique kit contains 40 pine cones (4”-5”) along with complete instructions and recipes for making 40 feeders that birds can’t resist. All parts of the finished feeder are biodegradable, so if a clever squirrel makes off with one, the feeder will turn into compost. Experiment with different recipes and a variety of hanging locations. Compare seasonal differences in species. Perfect classroom, camp, nature center, or home activity for ages 5-11.
#KIT-20140. $24.95. 12 or more, $21.95.
LENS ON OUTDOOR LEARNING. Banning, Sullivan. Based on a synthesis of early learning standards for children ages 3-5 and inspired by case studies, this important book provides new ideas for activities, materials, and settings that cover the gamut of outdoor learning.-richly illustrated with photographs, transcriptions of children’s dialogue, and teaching tips—a perfect hands-on science resource. #EE-19113. $49.95.

A PLACE FOR WONDER: Reading and Writing Nonfiction in the Primary Grades. Heard, McDonough. This book liberates both students and teachers in the primary grades by acknowledging the magical role of wonder and admitting that “not knowing everything” is perfectly acceptable. The authors’ goal is to create a “landscape of wonder.” By designing centers, projects, and clubs, educators can create classroom environments where curiosity is nurtured and exploration is encouraged. A Place for Wonder identifies both the resources and strategies that can be integrated into existing curricula, particularly as it relates to nonfiction reading and writing. A step-by-step guide to designing wonder centers, discovery windows, and listening walks, to name a few, stimulating nonfiction writing from the heart, and undertaking nonfiction research “wonder writing” (based on best practices in the teaching of literary responses and writing strategies). Most importantly, the recommendations embody the words of Rachel Carson, “It is more important to pave the way for the child to want to know than to put him on a diet of facts he is not ready to assimilate.” #EE-18004. $19.95.

HANDS-ON NATURE, Information and Activities for Exploring the Environment with Children. Lingelbach. All the guidance you need to develop activities for the classroom and outdoors. Multi-disciplinary approach links science and the visual and performing arts. Contains over 200 pages of easy to develop field and classroom-tested activities. One of the first handbooks specifically written to get children exploring the natural environment, and to this day still one of the best. Grades K-6. #EE-320. $27.95.

DISCOVERING NATURE WITH YOUNG CHILDREN. Chalouf, Worth. Innovative collection of activities for educators that builds on children’s natural curiosity about the living world around them. Through inquiry-based learning, teachers guide children through open and focused explorations, and observe, assess, and document their learning. Includes sections on scientific reasoning processes as well as math, language and literacy skills. Contains resource lists and reproducible charts and forms. Ages 4-8. #EE-12111. $25.95.

OUTSIDE YOUR WINDOW, A First Book of Nature. Davies. This engaging book captures the sights and sounds of a child’s interactions with nature, from planting acorns or biting into crisp apples to studying tide pools or lying back and watching the birds overhead. Inspires children ages 3-6 to explore the world around them. This engaging book offers a beautiful reminder that the natural world is on our doorstep waiting to be discovered. #B-20024. $19.95 hardcover.

NATURE’S PLAYGROUND, Activities, Crafts and Games to Encourage Children to Get Outdoors. Danks, Schofield. This guide to outdoor adventure shows children how to build a den from branches, make twig boats to sail across a pond, and voyage through the backyard to find tiny insects and creatures. Creative activities include invigorating games, natural crafts, and adventures, all organized around the seasons. An additional chapter addresses safe activities for children after dark. This creative resource encourages children to turn off the television and head outside where the real action is. Ages 7-9. #B-16102. $16.95.

INSTRUCTIONAL PLAY BALLS (Grades K-3). These 24” Clever Catch® inflatable balls add a new dimension to learning fun! Toss around the classroom, playground, nature center, scout gathering or home. Wherever your left thumb lands, that is the question that is to be answered! Perfect icebreakers for beginning a topic, quizzing on what has been learned, or getting group dynamics going. Answer key and instructions are included. $12.95 each.

AMPHIBIANS. #G-15370.

INSECTS. #G-15112.

REPTILES. #G-15368.

NATURE SPARKS, Connecting Children’s Learning to the Natural World. Cross. When children spend time in nature, they experience the profound benefits that outdoor play provides. This resource is filled with inspiration and instruction to help you reclaim and strengthen children’s connections to the outdoors. Supplies ideas to create a nature-oriented classroom and curriculum, incorporates Howard Gardner’s Theory of Multiple Intelligences to encourage children’s individual talents as they experience the natural world, and includes more than 50 sensory-integrated activities, crafts, and instructional strategies. For young explorers ages 3-6. #B-20068. $29.95.

ON SANDY SHORES. GEMS. Transforms any visit to the beach into an inquiry-based science experience. By studying seashore animals, sand grains and the small organisms living between the grains, students learn about classification systems, study erosion, waves, currents, habitats, camouflage, predator/prey relationships, pollution and conservation. This well-researched marine science resource contains over 200 pages of engaging hands-on activities. Designed for students in grades 2-4. #GEMS-5046. $22.95.

Acorn Naturalists | New Resources for the Trail and Classroom®
Explorations for Grades K-3 (ages 5-8)

HOW THE SUN MAKES OUR DAY: An Earth Science Unit for High-Ability Learners in Grades K-1. Center for Gifted Education. Engages students in investigations and observations about the Sun as a source of light and energy, the nature of shadows, human sources of energy, and the need to conserve natural resources. Contains simulations of real-world problems that require skills in collecting, analyzing, and evaluating data. #B-18015. $39.95.

WHAT’S THE MATTER?: A Physical Science Unit for High-Ability Learners in Grades 2-3. Center for Gifted Education. Students work on solving real-world scenarios by using their newly discovered knowledge of matter, the measurement of matter, and change in physical properties. Utilizes a hands-on, constructivist approach that allows children to build their knowledge base and skills while they explore science topics through play and planned investigations. #B-18153. $39.95.

INVITATION TO INVENT: A Physical Science Unit for High-Ability Learners in Grades 3-4. Center for Gifted Education. Students explore force, motion, and friction as they learn about six simple machines and how they are put together to form compound machines. Guide focuses on advanced content and higher level processes and contains simulations of real-world problems. This kit enables students to experience the work of real science by collecting, analyzing and evaluating data. #B-18212. $39.95.

SECRET FORMULAS. GEMS. Hands-on physical science activities become real-life experiences as students make their own brands of glue, toothpaste, cola, and ice cream. Contains background information, literature connections, and assessment techniques. Grades 1-3. #GEMS-4010. $17.95.

ALPHABET AND COUNTING BOOKS. Intriguing, beautifully illustrated series for children ages 4-8. Filled with fascinating stories and tales about a vast array of creatures and their habitats. $7.95 each. BEETLE ALPHABET BOOK. #INV-12381. BIRD ALPHABET BOOK. #BIRD-13740. BUTTERFLY ALPHABET BOOK. #INV-13741. DESERT ALPHABET BOOK. #PRE-2650. DINOSAUR ALPHABET BOOK. #FR-13743. EXTINCT ALPHABET BOOK. #FR-13744. FLOWER ALPHABET BOOK. #BP-13645. FRESHWATER ALPHABET BOOK. #B-13746. FROG ALPHABET BOOK. #AR-13780. FURRY ALPHABET BOOK. #B-13747. IKKY BUG ALPHABET BOOK. #INV-13748. IKKY BUG COUNTING BOOK. #INV-13749. OCEAN ALPHABET BOOK. #B-13750. OCEAN COUNTING BOOK. #B-13751. SKULL ALPHABET BOOK. #B-11126. SPICE (YUMMY) ALPHABET BOOK. #B-13753. UNDERWATER ALPHABET BOOK. #B-13754. UNDERWATER COUNTING BOOK. #B-13755. VEGETABLE ALPHABET BOOK. #BP-13756. YUCKY REPTILE ALPHABET BOOK. #AR-13757. SET OF ALL 20 BOOKS. #B-20176. $149.90: $147.95.

STEPPING INTO SCIENCE ACTIVITY KIT. Includes 25 intriguing experiments that introduce students to biology, physics and chemistry. Learn what plants need to grow, build a barometer, see how water climbs, watch plants sweat, and investigate plant propagation. Discover how a magnifying glass enlarges, how colors mix, how static electricity attracts, how sundials tell time, and how a motion picture works. Investigate air pressure, air flow, hovercraft, paper airplanes, and suction. Write secret messages, float a paper clip, blow super bubbles, observe capillary action, and test displacement. Build a soap-drained boat, mix oil and water, experiment with evaporation, paint with sugar, and watch a balloon inflate itself. Includes 48-page guidebook that introduces students to science concepts and processes. This kit offers an excellent “starting point” for young scientists in grades K-3. #KIT-17118. $36.95.

GROWTH THROUGH INQUIRY

WHAT IS A CARNIVORE (HERBIVORE AND OMNIVORE): Look, Listen and Big Ideas Series. Kalman. These three books for children in grades 2-3 explore the three major dietary preferences found in the animal kingdom. Each features spectacular color photographs plus a 26 page CD with additional images and a series of interactive questions. $13.95 (per book with CD). WHAT IS A CARNIVORE? #B-19119. WHAT IS A HERBIVORE? #B-19120. WHAT IS AN OMNIVORE? #B-19121. SET OF THREE. #B-20177. $41.85. $38.95.

NOCTURNAL ANIMALS SERIES. Dunn, Johnstons. Five fascinating books for children in grades PreK-2. Each features colorful photos, maps, and a simple text that discusses the habitat, life cycle, range, and behavior of each species. $6.95 ea. BATS. #MAM-19158. OPOSSUMS. #MAM-19159. PORCUPINES. #MAM-19160. RACCOONS. #MAM-19161. RED FOXES. #MAM-19162. SET OF FIVE. #B-20178. $34.75. $31.95.

STEPPING INTO SCIENCE ACTIVITY KIT. Includes 25 intriguing experiments that introduce students to biology, physics and chemistry. Learn what plants need to grow, build a barometer, see how water climbs, watch plants sweat, and investigate plant propagation. Discover how a magnifying glass enlarges, how colors mix, how static electricity attracts, how sundials tell time, and how a motion picture works. Investigate air pressure, air flow, hovercraft, paper airplanes, and suction. Write secret messages, float a paper clip, blow super bubbles, observe capillary action, and test displacement. Build a soap-drained boat, mix oil and water, experiment with evaporation, paint with sugar, and watch a balloon inflate itself. Includes 48-page guidebook that introduces students to science concepts and processes. This kit offers an excellent “starting point” for young scientists in grades K-3. #KIT-17118. $36.95.

GIGANT MAGNETIC INSECTS. Realistically detailed insect models large enough for the whole class to see! Ant and bee divide into three pieces to show head, thorax, and abdomen. Includes an ant, bee, butterfly, dragonfly, grasshopper, ladybug, moth, praying mantis, and wasp plus activity guide. Largest magnet (butterfly) measures 9” x 9.” Hands-on activities for children ages 5-9. #T-19180. $19.95/set. 6 or more, $17.95/set.


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TAKE-ALONG GUIDES. Children ages 5-10 will enjoy the creative activities and helpful identifications found in this series. Each guide is beautifully illustrated, well written, and inquiry-oriented. $7.95 each.

BERRIES, NUTS AND SEEDS. #BP-5182.

BIRDS, NESTS AND EGGS. #BIRD-649B.

CATERPILLARS, BUGS AND BUTTERFLIES. #INV-5210.

FROGS, TOADS AND TURTLES. #AR-7290.

PLANETS, MOONS AND STARS. #A-12457.

RABBITS, SQUIRRELS AND CHIPMUNKS. #MAM-7299.

ROCKS, FOSSILS AND ARROWHEADS. #FR-10196.

SEASHELS, CRABS AND SEA STARS. #B-8264.

SNAKES, SALAManders AND LIZARDS. #AR-5225.

TRACKS, SCATS AND SIGNS. #B-4091.

TREES, LEAVES AND BARK. #B-5170.

WILDFLOWERS, BLOOMS AND BLOSSOMS. #BP-7240.

SET OF ALL TWELVE TAKE-ALONG GUIDES. #B-20179. $95.40. $89.95.

LIFE IN A BIOME SERIES. Lindeen. This series introduces young children to the concept of animal adaptation in places as diverse as deserts, oceans, rainforests and polar regions. Children explore the diversity of global habitats and read about the animals that call these places home. Each of the eight books has a glossary, a “read more” section, global maps, notes to parents and teachers, and Internet links. For readers ages 5-6. $6.95 each.

DESERT. #B-13267.

FOREST. #B-13268.

OCEAN. #B-13274.

POLAR REGION. #B-13269.

SET OF ALL EIGHT LIFE IN A BIOME BOOKS. #B-20180. $55.60. $49.95.

ECOSYSTEMS SERIES. Wilkins, Richardson. This colorful, informative series helps readers explore the varied ecosystems of our planet, from deserts to rainforests, grasslands to oceans, wetlands to temperate forests. Each book explains land formations, vegetation, and climate, and describes the plants and animals that have adapted to these varied environments. Ages 6-8. $6.95 each.

DESERT. #B-12847.

GRASSLANDS. #B-12848.

OCEANS. #B-12849.

SET OF ALL SIX ECOSYSTEM SERIES BOOKS. #B-20181. $41.70. $38.95.

BIG SCIENCE IDEAS. Kalman. Perfect way to help students in grades 2-3 understand key science concepts by focusing on specific key topics. Captivating text is accompanied by color photographs. $8.95 each.

WHAT IS A CARnIVORE? #B-18154.

WHAT IS A HERBIVORE? #B-18155.

WHAT IS AN OMNIVORE? #B-18156.

WHAT IS A VERTEBRATE? #B-18157.

INSECT EATERS. #B-18158.

INVERTEBRATES. #B-18159.

SET OF ALL 12 BIG SCIENCE IDEA BOOKS. #B-20240. $107.40. $99.95.

AMAZING BIOME PROJECTS. Latham. Includes 25 hands-on projects for children ages 9-12 that teach about terrestrial and aquatic biomes. Students learn how different biomes interact and the challenges each poses to its inhabitants. #EE-18209. $15.95.

BIOME X-RAYS. Four unique scenes reveal a variety of animals whose skeletal structures appear when the material is held to a light. Includes a teacher’s guide that explores each ecosystem and its animal inhabitants. The four scenes depict 35 different animals found in Arctic, African, ocean and Australian settings. #T-18036. $19.95.

ANIMAL BEHAVIOR SERIES (AGES 5-7). Dell, Perkins, Niz. This award-winning series (Best Books for Children, Science Books and Films) shows children how different animals hunt for food, build their homes, raise and protect their young, communicate, eat, rest, protect themselves, and move. $6.95 each.

ANIMALS BUILDING HOMES. #B-15094.

ANIMALS COMMUNICATING. #B-15095.

ANIMALS FINDING FOOD. #B-15096.

ANIMALS RAISING OFFSPRING. #B-15097.

ANIMALS STAYING SAFE. #B-15098.

SET OF ALL SEVEN ANIMAL BEHAVIOR BOOKS. #B-20182. $48.66. $45.95.

Another big discount, lots of new selections...
HUMAN X-RAYS. Hold these human-sized x-rays up to a light and see authentic details of a real human skeleton. Arrange the 18 pieces to reproduce the entire body of a young adult 5’ tall. Includes teacher guide, artwork and information on radiography. #T-14085. $26.95.

MY SKELETON. These disarticulated bones stick to a felt backing that kids can put on to see what their bones look like and where they are located. The name of each bone is printed on the reverse side of each piece in English and Spanish. The teacher guide offers details about each bone and includes reproducible artwork. Ages 5-8. #T-17097. $28.95.

AMAZING X-RAYS OF WILD ANIMALS. Features 16 real x-rays and a battery-operated light box for reading the x-rays. In the colorful pages of the accompanying book, young radiologists ages 8-13 will find a wealth of x-ray images, photographs, and illustrations. #B-19198. $19.95.

AMAZING X-RAYS OF THE HUMAN BODY. Features 16 real x-rays and a battery operated light box for reading the x-rays. Simply clip one of the 16 x-rays to see the kinds of details doctors see, and in the process, learn about human anatomy and the skeletal system. In the colorful pages of the accompanying book, young radiologists ages 8-13 will find a wealth of x-ray images, photographs, and illustrations. #B-19170. $19.95.

MY INSIDES. Wonderful way to teach children about their own internal anatomy! These accurate, brightly printed images stick to a felt backing that kids wear, giving them a visual understanding of their internal organs. The name of each organ is printed on the reverse side of each piece in both English and Spanish. The teacher guide discusses the purpose of each organ and includes reproducible artwork. Fun learning for children ages 5-8. #T-17096. $19.95.

BONES, Skeletons and How They Work. Jenkins. Bones, many of them shown at actual size, are brought to life in this fascinating book for children ages 7-11. Learn about the tremendous weight of an elephant’s leg bone compared with the feather-light femur of a stork. Rib-tickling info about snakes and sloths along with discussions of how the many different bones in the human body all fit together. #B-20069. $16.95 hardcover.

THE SKULL ALPHABET BOOK. Pallotta, Maselli. Learn anatomy while reciting the alphabet! Each page has a colorful drawing of a skull along with clues as to its identity. Proceeding in alphabetical order, the text includes fascinating anatomical facts about the skulls and what they tell about their owners. #B-11126. $7.95.

TEETH. Collard. Wonderful introduction to teeth including ours. This colorful book features vivid illustrations of animals and their teeth—teeth that grind, mash, munch, grip, tear, slide or stab. From tiny teeth to ferocious fangs and the multiple layers of teeth in sharks and snakes, this book offers fascinating reading for children in grades 1-4. #B-16167. $7.95.

HANDS-ON STANDARDS: SCIENCE K-1. Learning Resources. Complete lessons for teaching science process skills through hands-on activities. Activities feature physical, life, and Earth and space science content, all aligned with National Science Education Standards. This valuable resource also provides access to useful rubrics, assessments, answer keys and blackline masters online. Teaches 9 process skills in 36 lessons that include 45 blackline masters. Tabbed and spiral-bound, this teacher handbook contains 152 content-packed pages. #B-18193. $49.95.

HANDS-ON STANDARDS: SCIENCE GRADES 2-3. Same as above only lesson plans are designed for students in grades 2-3. #B-18194. $49.95.
LIFE CYCLE MODELS:

- Earthworm Set
- Ant Set
- Ladybug Set
- Butterfly Set

LIFE CYCLE SETS. Use these accurate replicas for hands-on study of the life cycles of ants, earthworms, frogs, ladybugs, painted lady butterflies, and praying mantids. Compare and contrast different kinds of metamorphosis as well as food preferences for each of the stages. For ages 5 and up, phthalate-free. $4.95 each.

- Ant Set. #T-13518.
- Earthworm Set. #T-16304.
- Frog Set. #T-16305.
- Ladybug Set. #T-13569.
- Painted Lady Butterfly Set. #T-10260.
- Praying Mantis Set. #T-16307.

LIFE CYCLE OF A BEAN PLANT. Four replicas (all in replica soil matrix): bean seed, bean germination, bean seedling, bean plant. These phthalate-free replicas range in size from 2 to 3-1/2 inches. For children ages 4-9. #T-20122. $8.95.

HONEY BEE LIFE CYCLE REPLICA. This educational four piece set includes a 3” wide adult honey bee along with an egg chamber, a larva, and a pupa. Replicas are phthalate-free. Hands-on learning for ages 5 and up. #T-19051. $8.95 set. 12 or more, $7.95 set.

LIFE CYCLE RUBBER STAMPS: ANTS. Collection of four high quality rubber stamps. Includes egg, larva, pupa and adult. These life cycle stamps range in size from 1-2”. Provides hands-on learning for children ages 4-9. #T-20139. $9.95.

LIFE CYCLE RUBBER STAMPS: LADYBUG. Collection of four high quality rubber stamps. Includes egg, larva, pupa and adult. These life cycle stamps range in size from 1-2”. Hands-on learning for children ages 4-9. #T-20138. $9.95.

HOW INSECTS SEE. Fascinating kit allows students to view the world as insects do. Learn how dragonflies are able to detect the slightest movement through their ommatidium (hexagonal units composing the compound eye). See how ocelli work as well as elongated eyes that see different wavelengths. A fascinating foray into how other creatures view the world. Kit includes three lenses, retainer ring, and viewing tube. #T-14366. $5.95 each. 12 or more, $5.49 each.

LIFE CYCLE SERIES. Dramatic color photographs and grade-appropriate text document the life history of six common yet fascinating arthropods, from egg to adult. Perfect for teaching children in grades 2-3 about animal life cycles using familiar species. $6.95 each.

- Mealworms. #INV-13252.
- Milkworm Bugs. #INV-15068.
- Painted Lady Butterflies. #INV-15065.
- Pillbugs. #INV-15066.

SILKWORMS. Johnson. Offers superb descriptions and color photographs of silkworm eggs, larvae, cocoons, and adults. Discussion of the history of the silkworm plus photographs of commercial silkworm operations and directions for rearing your own perpetual colonies. Excellent resource for anyone who is interested in successfully raising these fascinating moths. Ages 6 to adult. #INV-1197. $5.95.

BUTTERFLY AND FROG METAMORPHOSIS STACKING BLOCKS. These creative stacking blocks teach counting, structure and motor skills while improving observation skills and enhancing knowledge about metamorphosis. Children discover growth in these animals as they build a tower ten blocks high. Offers creative play for children ages 5-7. #G-17247. $21.95 each. 12 or more, $19.95 each.

LET’S GROW! The Life Cycles Game. Energize learners with this dynamic science game that encourages deeper understanding of life cycles. Reinforces knowledge of developmental stages of a chicken, frog, butterfly and plant. Includes game board (14” diameter), 4 life cycle game cards, 16 puzzle pieces, 4 pawns, spinner and instructions. For 2-4 players ages 5-7. #G-19181. $19.95.

Through Inquiry

New Resources for the Trail and Classroom®
MONARCH POSTER (Vertical). From egg to adult, this laminated 17” wide x 22” tall poster depicts the life cycle of the monarch butterfly. From its easy to identify caterpillar to its gold and green chrysalis, the monarch butterfly life cycle is one of beauty. Each stage is identified using imagery and text.
#PO-19167. $12.95.

MONARCH LIFE CYCLE REPLICA. This four piece set includes a 3.5” wide adult monarch butterfly, leaf with eggs and three early instar caterpillars, a maturing caterpillar and a chrysalis attached to a twig. Ages 4 and up. #T-19050. $8.95 set. 12 or more, $7.95 set.

MONARCH LIFE CYCLE REPLICA. This full-color poster displays all stages in the life of a monarch butterfly. Each phase is described in the text below the exquisite montage. This 14” tall x 20” wide poster comes laminated and ready to hang or place at a life cycle learning center.
#PO-16177. $16.95 each. 12 or more, $14.95 each.

MONARCH LIFE CYCLE FLASH CARDS. Set of 16 full-color 5” x 4” cards with a photo of each life cycle stage on the front and descriptive text and sketches on the back. Includes details of egg hatching, caterpillar, instar stages, molting, feeding habits, larval and adult anatomy, chrysalis formation, and butterfly hatching. For children ages 8-adult. #INV-19169. $9.95.

MONARCH BUTTERFLY LIFE CYCLE RUBBER STAMPS. Explore, color and label the monarch life cycle with this set of high quality rubber stamps. Includes egg, larva, pupa, and butterfly. Packaged in a convenient storage case. Stamps range in size from 1-2”. Hands on learning for children ages 5-8. #T-20054. $6.95.

3-D LIFE CYCLE DEMONSTRATION MAGNETS: Monarch Butterfly and Bean Plant. Both students and teachers can build magnetic science models on whiteboards using these large magnets (ranging in size from 3”-8”). Engages children in hands-on discovery as they manipulate the chunky 3-D magnetic pieces, reinforcing both content and vocabulary. Includes four magnets each for the bean plant and butterfly life cycles, plus labels and arrows (to indicate progression from one stage to another) for a total of 20 magnets in all. Also contains descriptive material with supplemental hands-on activities for students in grades K-5. #T-20053. $49.95.

MONARCH OBSERVATIONS. Found throughout North America, this butterfly is perfect for life-cycle studies. Resources shown on this page can be combined with visits to milkweed plants in the field or school garden. Milkweed is very easy to grow and it attracts many species of insects. Look for plants with holes in their leaves which may indicate that a monarch larva is munching nearby!
LEARNING FROM MONARCHS, A Teacher’s Handbook. Rea. Monarch’s offer a perfect introduction to insect life cycles, ecology and food chains. They can be the focus of engaging science projects, as well as mathematics skill development (graphing). Monarch field studies offer exciting journaling opportunities that can be a catalyst for understanding a wide range of natural phenomena. This is a perfect guide for educators interested in helping others learn about this butterfly. #INV-19132. $13.95.

MONARCH AND MILKWEED. Frost, Gore. Follow a female monarch as she locates nectar and food plants, and lays eggs which develop and emerge into adults that join in the migration south for the winter, to return in the spring. This engaging life cycle book features beautiful color illustrations throughout. For children ages 3-7. #INV-16053. $17.95 hardcover.

ON THE WINGS OF THE MONARCH DVD. Beautiful, intriguing DVD focuses on this spectacular species. Travel with host Libby Graham on a wondrous journey to monarch overwintering sites in central Mexico where millions of monarchs spend the winter. Trace the life cycle of this species from egg to adult. Stunning slow-motion photography captures the beauty and strength of the monarch. Includes interview with monarch expert, Dr. Lincoln Brower. 47 minutes, ages 6-adult. #DVD-13135. $21.95.

MILKWEED, MONARCHS AND MORE, A Field Guide to the Invertebrate Community in the Milkweed Patch (2nd Edition). Rea, Oberhauser, Quinn. Most people associate milkweed with monarchs, but in addition to monarchs, milkweed supports an incredibly diverse number of species that depend on this plant for food and shelter. An entire ecology of predator/prey species can be seen on a milkweed plant. Includes full-color photographs of dozens of monarchs along with an identification guide to different milkweed species. Ages 12-adult. #INV-19131. $16.95.
NEW! LIVING BUTTERFLY GARDEN. The original live butterfly kit! Easy to follow instructions show you how to build the butterfly cage (included). A month or so before you are ready to start, send in the coupon (coupon is included but supplier of the caterpillar larvae charges $5 shipping). You will receive a container with three to five painted lady larvae plus food for them to grow and reach pupation. #KIT-497. $19.95. 12 or more, $17.95.

NEW! LIFE CYCLES ANIMATED CARD SET. Features 18 double-sided 4” x 5” cards. One side is prismatic, showing changing life cycle stages when tilted at an angle, while the other side summarizes key concepts and vocabulary. Card set includes: tadpole, frog, monarch, chicken in egg, hatched chicken, cat, salmon, penguin, human, housefly, dandelion, bean, carrot, tomato, flower, pollination, seasonal change, shedding snake. Engaging learning for children ages 6-9. #G-20049. $17.95.

NEW! ANIMAL EGGS, An Amazing Clutch of Mysteries and Marvels. Cusick. Discover the amazing colors, shapes and sizes that animal eggs come in. Learn about the ways animals protect their eggs: male fish that hold eggs in their mouths, female turtles that make elaborate sand nests, and spiders that spin a silk ball around their eggs and carry it with them. Fascinating color pictures throughout. Ages 6-10. #INV-14445. $16.95.

NEW! DUAL PURPOSE OBSERVATION CONTAINER. Lid can be used as a separate magnifier or combined with lucite top to make a double magnifier (4x). Tight fitting lid keeps viewer and specimen safe until release. Fully vented, 2-1/2” diameter x 3” tall. Features a metric grid for making measurements. #T-6518. $4.25 each. 30 or more, $3.97 each.

NEW! LIFE CYCLE OF A GREEN SEA TURTLE: REPLICAS. Creative, hands-on set of four replicas: sea turtle eggs in sand, hatching sea turtle, juvenile and adult sea turtle. These phthalate-free replicas range in size from 2 to 3-1/2 inches. #T-20121. $8.95.


NEW! AMERICAN BULLFROG REPLICA. Hand-painted replica of Rana catesbeiana, a common frog species whose loud call is often heard around ponds at night. This life-size phthalate-free replica measures 5” long x 3” high. #R-17292. $8.95.
LIFETIMES. Rice. Sensitive introduction for children ages 5-11 to the topic of animal life cycles. Introduces some of nature’s longest, shortest, and most unusual lifetimes. Teaches the value of cooperation, importance of saving for the future, and taking time to have fun. #B-6408. $8.95.

LIFETIMES CURRICULUM. Major. Offers teaching strategies in 45 minute-long lesson plans, correlated to the book. Grades 3-5. #B-6409. $7.95.


GET OUTDOORS! YOUNG EXPLORER FIELD PACK. Acorn Naturalists. Children ages 5-7 will enjoy bringing along their own nature exploration pack on their hikes and family excursions. This pack features the books One Small Square: Backyard and Take-Along Guide to Caterpillars, Bugs and Butterflies. Also includes the Nature Circles card deck, Acorn Naturalists 3x folding pocket magnifier, one large and one small lucite bug box along with two petri dishes in ziploc bags. All of these resources are carefully packed inside this lightweight, durable backpack. #KIT-16331. $59.95.

A LOG’S LIFE. Pfeffer. Fascinating look at an entire ecosystem that develops when an old tree falls to the forest floor. As porcupines, spiders, termites, centipedes and rodents move in, the fallen tree slowly decomposes until one day an acorn falls on the humus and, with the nutrients from the old tree, starts sprouting, thus beginning a new life cycle. For children ages 4-8. #B-15425. $6.95.

IN A NUTSHELL. Anthony, Arbo. Using the acorn as a metaphor, this book follows the life cycle of this seed, showing how it grows and supports the wildlife and people in the area, and how the energy from that acorn is eventually recycled through decomposition of the old oak. Here in a nutshell is a tale about life. Ages 3-9. #B-15425. $6.95.

TERRARIUM HABITATS. GEMS. Bring the natural world into your K through grade 6 classroom! Build a terrarium and observe and record changes over time as students study the life cycles of sowbugs, earthworms, crickets, and other small animals, and the processes of decomposition. Instructions on terrarium assembly are also provided. Five activities, 96 pages. #GEMS-3050. $14.95.

GARDEN INSECTS IDENTIFICATION GUIDE. These waterproof cards feature 17 garden insects along with useful ideas for encouraging (or deterring) them. Cards measure 1-1/4" x 4," bound together with a chain. #T-11119.$6.95.

EDIBLE SCHOOLYARD. A Universal Idea. Waters. Chef Alice Waters describes how a small group of teachers and volunteers turned over long-abandoned soil at an urban middle school to plant the Edible Schoolyard. The original concept has been developed into activities that integrate academics with growing, cooking, and sharing wholesome, delicious food and, in short, becoming the “Edible Educator.” Provides educators with a visionary model for linking school gardens with nutrition and sustainability. #B-17221. $24.95.

MATH IN THE GARDEN. Kreidlet. Gardens are magical settings filled with aromas, colors, and patterns that excite the imagination and awaken the senses. Why not capitalize on this to engage children in fun math exercises that complement their natural enthusiasm for what is going on outside? This engaging curriculum uses a mathematical lens to take children on an education-filled exploration of the garden. Dozens of hands-on activities hone math skills and promote inquiry, language arts, and nutrition. Get that school garden growing with activities that support math and science standards. Grades K-8. #B-14483. $29.95.

HYDROPONICS LAB. View growing plants from the roots up! This set of three growing tubes is a great way to explore hydroponics. Clear tubes provide a view of growing seedlings through the transparent seed basket that shows the plant growing both up and down. Tubes also offer a write and clean surface for labels. Kit includes three shatterproof plastic test tubes (1.75" in diameter x 7" high), three stands, three support rod tops and three support rod bottoms, three seed baskets, and an activity guide. Ages 5-11. #KIT-20050. $19.95.

SEE-THROUGH COMPOST CONTAINER. New! Features a 12" x 4" x 8" clear plastic box with three compartments enhanced by magnification lenses. Includes three thermometers for demonstrating temperature changes during decomposition, allowing for comparisons of different composting materials. Teaches students ages 5-9 about decomposition, composting, and material life cycles. Features teacher’s guide with curriculum ideas, time lines, and science fair applications. #KIT-20051. $32.95.

KIDS’ GARDEN, 40 Fun Indoor and Outdoor Activities and Games. Cohen. Get outside and enjoy forty activities and games. Includes booklet that contains information on gardening tools, year-round plant care and garden safety. These step-by-step instructions are enhanced by colorful collage artwork on each double-sided card. Create fun and easy ways for budding green-thumbs to plant, investigate, learn and experiment. Ages 8 and up. #G-20048. $19.95.

ROOTS, SHOOTS, BUCKETS AND BOOTS, Gardening Together with Children. Lovejoy. Blends gardening, nature, and science into 12 spirited theme gardens. Try the fun potato bin garden that fits on a porch or just outside the classroom. Each project includes plans, recipes, and a “Discovery Walk.” Ages 5-12. #BP-8315. $13.95.
Adventures for Grades 4-6 (ages 9-11)
**ADVENTURES FOR GRADES 4-6 (AGES 9-11)**

**LESSONS THAT INCLUDE 45 BLACKLINE MASTERS. AGES 9-11.**

**BUGS: INSECTS AND THEIR RELATIVES.** #B-19052. $6.95 each. 20 or more, $5.95 each.

**SEASONS: PLANTS AND ANIMALS.** #B-19054. $6.95 each. 20 or more, $5.95 each.

**HANDS-ON STANDARDS: SCIENCE GRADES 4-5.** Learning Resources. Complete lessons for teaching science process skills through hands-on activities. Resource features physical, life, and Earth and space science content, all aligned with National Science Education Standards. This valuable guide also provides access to useful rubrics, assessments, answer keys and blackline masters online. Teaches 9 process skills in 36 lessons that include 45 blackline masters. Ages 9-11. #B-18030. $49.95.

**Oobleck: What Do Scientists Do?** GEMS. Students analyze the properties of a strange green substance named “Oobleck” said to have come from another planet. Class holds a scientific convention to discuss experimental findings. Five sessions for grades 4-8. #GEMS-3059. $14.95.

**SOIL LIFE DISCOVERY KIT.** Acorn Naturalists. Discover life in compost piles, the dust at the base of a tree, or in different sections of a garden, school yard or natural area. Kit components include three each of 4” diameter soil organism sifting funnels, 8” x 6” x 4” observation containers with lids, and 16 ounce lucite collection jars with lids plus a high quality magnifying glass, a guide to soil organisms, and kit booklet. Kit is easily expandable—see below. #KIT-17267. $49.95.

**TEN PIECE EXPANSION PACK.** Expand the above kit for additional experimentation. Includes 10 each of: sifting funnels, observation containers with lids, 16 ounce trap jars with lids. #KIT-17269. $64.95.

**HIGH POWER MAGNIFIER.** #T-9352. $12.95 ea. 20 or more, $11.75 each.

**SCHOOLYARD ECOLOGY. GEMS.** An incredible array of life exists within the schoolyard and this GEMS guide helps your students discover it! Students apply biological techniques, mapping and mathematical skills just outside the classroom. Through the process of surveying populations of ants and spiders, students gain a better understanding of ecological concepts, including those of community and interdependence. Grades 3-6. #GEMS-6251. $19.95.

**EARTH, MOON, AND STARS. GEMS.** Students explore Earth’s shape and gravity, Moon phases and eclipses. Activities include observing and recording changes in the sky and creating models to explain observations. Students are challenged with finding constellations and telling time by the stars. 15 sessions, grades 5-9. #GEMS-2295. $17.95.

**CONSTELLATIONS PLASTIC LAMINATED FIELD GUIDE.** This waterproof set of cards features constellations as viewed from within North America. Each plastic laminated card measures just 1-1/4” x 4”, bound together with a clip-chain. #T-17072. $6.95.

**EYEWITNESS PLANETS DVD.** In the entertaining yet very scientifically accurate style of the Eyewitness series, journey through space and time, witnessing the birth of the Sun and exploring the outer limits of the solar system. Along the way, visit one of the smaller planets (Earth) and its close neighbor (the Moon). Ages 9-adult, 35 minutes. #DVD-16223. $12.95.

**FIBONACCI NUMBERS PINE CONE LAB**

**B. Acorn Naturalists.** An Italian mathematician published a book in 1202 that told of the discovery of a fascinating number sequence often seen in nature (0,1,1,2,3,5,8,13,21,34, and so on) where the sum of any two numbers in the sequence equals the next number. This kit explores this sequence (as found in pine cones), discusses its relevance to science and math, and offers suggestions for further student investigations. An intriguing way to integrate biology with math! Includes six pine cones, instructions, and activity guide. Ages 8-adult. #KIT-19182. $9.95 each.

**FIBONACCI NUMBERS PINE CONE LAB**

**NEW! (CLASS KIT).** Acorn Naturalists. Includes everything in the individual kit described above, but contains a total of 40 cones. #KIT-19183. $26.95.

**GROWING PATTERNS, Fibonacci Numbers in Nature.** Campbell. Explores one of the biggest mathematical mysteries in nature: 1, 1, 2, 3, 5, 8, 13, … each number in the sequence comes from adding the two numbers before it. What’s the mystery? The pattern crops up in the most unexpected places. You’ll find it in the disk of a sunflower, the skin of a pineapple, and the spiral of a nautilus shell. Readers ages 6-12 will find Fibonacci numbers in daisies, pinecones, seashells, and more. Perfect complement to Acorn Naturalists Fibonacci Numbers Pine Cone lab. #B-20073. $17.95 hardcover.

**GROWTH THROUGH INQUIRY**

**IN ALL PROBABILITY. GEMS.** Students use coins, spinners, dice, and Native American game sticks to investigate chance and probability. Provides a solid basis for development of key decision-making skills. Features 11 engaging sessions for students in grades 3-6. #GEMS-2178. $22.95.

**ELECTRIC CIRCUITS, INVENTIVE PHYSICAL SCIENCE ACTIVITIES. GEMS.** Students invent their own electrical gadgets using inexpensive materials. The unit opens with students investigating an array of clever electrical devices, first exploring their function, then learning how their circuits work. The contributions of famous inventors are highlighted. This 11 session unit culminates in an Electric Inventions Festival. Charged learning for grades 3-6. #GEMS-13113. $27.95.
PROJECT EARTH SCIENCE: GEOLOGY (Revised 2nd Edition). Ford. Introduces geological processes and cycles on Earth. Contains numerous teacher-tested classroom activities that use readily available materials. Exercises include model plate tectonics, volcanic eruptions, earthquakes, mountain building and rock cycles. Includes matrix that places activities in a logical sequence to help students grasp the concept of geological time. Hands-on learning for students in grades 5-10. #FR-20035. $32.95.

ROCK AND MINERAL SPECIMENS. This collection consists of two each of 25 different igneous, sedimentary, and metamorphic specimens, identified by name and collection locale. These 50 freshly split specimens (1-1/2" in size) are perfect for introducing students to the basic principles of mineral formation and identification. Use with rock and scratch plates and offer each separately. Great geology starter collection, grades 5-12. #KIT-8345. $74.95.

RING OF FIRE (DVD). Travel to the edge of a new volcano in Chile and relive recent history with rare and spectacular images of the infamous 1980 eruption of Mount St. Helens. Wonderful animated explanation of how forces within Earth initiate the events that cause volcanic eruptions and earthquakes—all part of the seismic activity ringing the Pacific Ocean. 40 minutes. #DVD-12188. $14.95.

LIFE THROUGH TIME, Life Science Activities for Grades 5-8. GEMS. Helps students understand one of the unifying themes in science—change over time. Students create models that show life from its simplest, single-celled forms to complex organisms. Concepts of adaptation, relatedness and time are explored in six sessions. Includes campaign skits of “stump speeches” by competing organisms and an election of the most representative organism of the age. #GEMS-11103. $34.95.

DYWITNESS VOLCANO DVD AND BOOK. In classic Eyewitness style, journey to one of the most inhospitable regions of Earth, where rocks melt and the earth trembles. Witness the effects of volcanoes and associated earthquakes, and the life-saving results of their aftermath. Book now comes with supplemental CD. For ages 8-adult, 35 minutes. #DVD-14704. $12.95. VOLCANO BOOK AND CD. #B-13404. $16.95.

PLATE TECTONICS. This GEMS guide provides a coherent study of how the outer surface of Earth moves and changes. Classroom models of erupting volcanoes, faults, rock layering and sea floor spreading reveal the dynamic nature of Earth’s crust. Divided into eight sessions, including evaluation by students of the theory of plate tectonics. Grades 6-8. #GEMS-10224. $25.95.

GEOLOGY! 50 Hands-on Activities to Explore Earth. Blobaum. Erode a cave, model a glacier, sculpt a sandstone formation, petrify a bone, take a neighborhood architectural rock tour, scope out nearby fossil hunting grounds, or study what causes earthquakes. Includes activities in physical, historical and environmental geology. For children ages 7-14. #FR-8334. $12.95.

EYEwITNESS ROCK & MINERAL DVD AND BOOK. Contrary to the term “rock solid,” these resources demonstrate how rocks provide a record of Earth’s constantly changing history. See how minerals have influenced entire civilizations, from their productive use as building materials to their role as a cause of human conflict. Describes rocks and minerals as objects of beauty and utility. For ages 9-adult, 35 minutes. #FR-13427. $16.95.

EYEwITNESS CRYSTAL AND GEM BOOK. #FR-13427. $16.95.

EYEwITNESS ROCK AND MINERAL CRYSTAL SET. Features 10 double-sided, laminated charts, each 12" x 18". Side 1 features a graphic overview of the topic while side 2 serves as a write-on/wipe-off activity chart. Spiral bound on durable, free-standing easel. Accompanied by an activity guide featuring copymasters. Topics include minerals, rocks, fossils, geologic time scale, plate tectonics, earthquakes, weathering of rocks and soil formation, Earth’s atmosphere, understanding weather and a review of our solar system. Ideal supplement to any earth science curriculum. #PO-19056. $35.95 each. 3 or more, 33.95 each.

EYEwITNESS CRYSTAL AND GEM SET. #FR-10234. $39.95.

EYEwITNESS ROCK & MINERAL DVD AND BOOK. #FR-14738. $29.95. $26.95.

EYEwITNESS CRYSTAL AND GEM BOOK. #FR-13427. $16.95.

EYEwITNESS CRYSTAL AND GEM DVD AND BOOK. #FR-13427. $16.95.

EYEwITNESS CRYSTAL AND GEM DVD AND BOOK. #FR-14738. $29.95. $26.95.

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EYEwITNESS CRYSTAL AND GEM DVD AND BOOK. #FR-13427. $16.95.
POND AND STREAM SAFARI, A Guide to the Ecology of Aquatic Invertebrates (Revised Edition). Edelstein. Perfect field guide for use with students ages 8-13. Includes project manual, reference guide, species identification cards, worksheets, and a checklist for recording data, all in a reusable folder. Students can use this guide to locate and study crayfish, fierce-looking dragonfly nymphs, water bugs, whirligig beetles, diving beetles, mayfly nymphs, caddisfly larvae, and more. #WTR-5117. $18.95.

WHERE DOES YOUR WATER COME FROM? Drinking Water Source Book. Water Education Foundation. Helps students in grades 4-8 discover the sources of their drinking water. Colorful photographs and engaging text describe the water cycle, watersheds, surface water, groundwater, sources of pollution, and strategies to help prevent degradation of water supplies. Use to supplement other curricula or as a stand-alone guide to a resource that most people take for granted. #WTR-10190. $14.95.

ONE WELL, The Story of Water on Earth. Strauss. Beautifully illustrated with paintings, One Well uses real data to describe the dependence of all living things on water. Takes the view that every raindrop, lake, underground river, and glacier is part of a single global well. Water has the power to change everything—it can sprout seeds, quench thirst, provide habitat, generate energy, and sustain life. Sends the message that everyone can help conserve and protect our global well. Ages 8-13. #B-16174. $18.95 hardcover.

WE ALL LIVE DOWNSTREAM (CD). Banana Slug String Band. Promotes watershed awareness with songs like Storm Drain Blues that educate children on the importance of controlling non-point pollution. In One Little River, children are introduced to what a watershed is while Let Wetlands Stand sings out about the value of marshes. Listen tells how to determine stream health by looking at macro-invertebrates. Educational fun for ages 7-12. #CD-17135. $14.95.

INVERTEBRATE (FINE MESH) EXTENDABLE ALUMINUM HANDLE AQUATIC NET. Simply twist the sturdy rust-proof metal handle to adjust length from 26 to 48 inches. Tough, 11-1/2 x 10 inch white nylon net bag is securely sewn to the metal net ring. Fine mesh size (1/16”) is perfect for aquatic insect sampling—net is easy to carry, flexible, lightweight, and perfect for exploring aquatic habitats. #T-13508. $24.95.

ACORN NATURALISTS SOFT CASE 3x POCKET MAGNIFIER. Crystal clear optics protected by tough, embossed vinyl slip-case. One of our most popular magnifiers; features 1-5/8” diameter thermoplastic lens. #T-104. $3.95 each. 30 or more, $3.25 each.

GREEN (Global Rivers Environmental Education Network) INTRODUCTORY WATER QUALITY MONITORING KIT. GREEN supports action-oriented approaches to watershed education with hands-on water quality testing and analysis. This kit contains everything needed to introduce students to eight different water quality parameters (biochemical oxygen demand, coliform bacteria, dissolved oxygen, nitrate, pH, phosphate, turbidity and temperature change). Uses patented TeTab method (non-hazardous) which is accurate and easy to use. Sufficient material for 10 water samples (three samples for coliform). An excellent introduction to basic, yet important water quality parameters. #TEST-7202. $34.95 each. 20 or more, $31.95 each.

URBAN WATER QUALITY TEST KIT. Teachers sometimes think that water quality analysis involves going out to a wild stream. This kit focuses on local environments by testing water from the tap, urban runoff, or small ponds. Utilizes safe, easy TeTab to analyze key parameters (chlorine, copper, hardness, iron, nitrate, pH, phosphate and temperature). Includes handbook and materials for 10 tests each. Ages 9-adult. #TEST-10206. $43.95 each. 20 or more, $39.95 each.

POND NATURE ACTIVITY BOOK: Games and Activities (revised). Kavanagh, Leung. Offers 64 pages of educational games and activities related to pond life. Includes word mazes, origami, name and picture scrambles, word search, Who am I, Spot the Difference, Color Me, Be an Artist, and Oddball Out games. Ages 7-12. #B-20021. $6.95.

AQUATIC HABITATS. GEMS. Five sequential activities teach students in grades 5-6 how to create aquatic habitats, raise water snails, fish, and mosquito larvae, and investigate aquatic environments. Focuses on concepts of habitat, food web, life cycle, adaptation, interdependence, behavior, biological control and the environment. Exercises are woven into themes of systems and interactions, patterns of change, structure, energy and matter. #GEMS-7163. $22.95.
GROWTH THROUGH INQUIRY

Discoveries for Grades 7-8 (ages 12-13)

THE REAL REASONS FOR SEASONS: SUN-EARTH CONNECTIONS. GEMS. A sequence of hands-on and modeling activities builds student understanding and conveys a great deal of astronomical knowledge. Book also includes a supplementary CD that features a wide selection of photographs, films, web sites, simulations, and software. For grades 6-8. #GEMS-9424. $27.95.

INVISIBLE UNIVERSE: The Electromagnetic Spectrum from Radio Waves to Gamma Rays. GEMS. These intriguing activities deepen students’ understanding of wavelengths other than visible light. Students come up with their own tests to see what blocks certain wavelengths and what does not. Students also learn how other wavelengths can be used to “see” things we can’t see with our eyes, allowing scientists to detect things in space. Fascinating discussions of gamma ray bursts and other electromagnetic phenomena. Activities and content are correlated to National Science Education Standards. Grades 6-8. #GEMS-11102. $22.95.

LIVING WITH A STAR: From Sun Screen to Space Weather (Book and CD). GEMS. Students in grades 6-8 learn about the Sun by solving a mystery involving a global power outage (caused by a solar storm). Students also learn about UV health risks, the effect of the Sun on weather, and more. For grades 6-8. #GEMS-11104. $30.95.

MESSAGES FROM SPACE. This engaging unit opens with a binary-coded message from space and proceeds to take the class on a journey through our solar system and beyond. Students model size and distance, explore how systems may have been formed, explore stellar life zones and design space travel brochures based on their observations. For grades 5-8. #GEMS-8197. $22.95.

PROJECT EARTH SCIENCE: PHYSICAL OCEANOGRAPHY (Revised 2nd Edition). Ford, Smith. Immerse students in Earth’s most abundant resource, saltwater. Hands-on activities explore the structure of water molecules, salt and fresh water mixing, tidal forces, oil spill cleanup methods, and more. Complete materials list, annotated bibliography and directions for building a wave tank. For grades 6-10. #B-20041. $32.95.

THE SOLAR SYSTEM GAME. Which planet has the highest mountain? Which would float in a gigatonic ocean? Which is moving the fastest? Players learn about the universe, planets, astronomers, the Sun, Moon, and asteroids. They advance through three levels of play as they acquire knowledge and build their understanding. This visually stunning game features NASA photographs of solar system phenomena. For 2 or more players, ages 9-13. #G-17080. $23.95.

PROJECT EARTH SCIENCE: ASTRONOMY (Revised 2nd Edition). Smith. Comprehensive, teacher-tested astronomy sourcebook for grades 6-10. Ceylans 11 hands-on lesson plans, 14 readings, materials list, and suggestions for integration with other disciplines. Uses open-ended questioning throughout. Will lead you and your students on an exploration to the stars and back. #A-20038. $32.95.

ASTEROIDS: Deadly Impact (DVD). National Geographic Society. Every year, tons of meteorites rain down on Earth, mostly unnoticed as they crash onto deserts, forests and oceans. Occasionally, massive asteroids hit Earth, causing incredible fires and destruction. Some theorize that the extinction of the dinosaurs was caused by a massive meteoric collision—film asks could it happen again? All ages, 60 minutes. #DVD-12185. $19.95.

WEATHER PROJECTS FOR YOUNG SCIENTISTS. Carson. Includes over 40 weather-related hands-on activities, including building weather-measuring tools such as barometers, psychrometers, anemometers, wind vanes, rain gauges, and thermometers, along with a working weather station. Create a tornado in a bottle, calculate dew point, and read a weather map, develop science fair projects on weather-related environmental issues such as global climate change, and ozone depletion. Ages 9-13. #BW-15220. $16.95.

RIVER CUTTERS. REVISED. GEMS. Students construct a model watershed using diatomaceous earth and a drip system. By running river models, students are introduced to the concepts of erosion, geological sequencing, watershed, and human factors. Seven sessions for grades 6-9. #GEMS-1248. $19.95.

EYEWITNESS NATURAL DISASTERS DVD and EYEWITNESS HURRICANE AND TORNADO BOOK. Explores the forces that shape our planet and affect human lives. From powerful hurricanes and tornadoes to earthquakes and avalanches, rare images of natural forces demonstrates the power and fury of these events. Ages 9-adult. 35 minutes. NATURAL DISASTERS DVD. #DVD-18090. $12.95.

Acorn Naturalists | New Resources for the Trail and Classroom®
PERFECT PELLETS. Each of these owl pellet replicas contains the bones (replicas) of one of three common prey species (vole, bird, or mole). These owl pellet replicas are easier to dissect than organic (real) pellets while offering a consistent lab experience. Each pellet contains a complete disarticulated skeleton that can then be studied using bone sorting charts or diagrams. $2.95 each. 30 or more (mix or match), $2.49 each.

VOL E PERFECT PELLET. #T-16801. MOLE PERFECT PELLET. #T-16802. BIRD PERFECT PELLET. #T-16803.

METAL PROBES. These quality 5" probes are useful for teasing apart owl pellets. STRAIGHT TIP. #T-16148. $3.95 each. 30 or more, $2.95 each. CURVED TIP. #T-16149. $3.95 each. 30 or more, $2.95 each.

GLOBAL WARMING AND THE GREENHOUSE EFFECT. GEMS. Students build a greenhouse model of the atmosphere and conduct simulation games and carbon dioxide gas release experiments using baking soda and vinegar. Students hold a conference on global warming and learn how environmental problems can be viewed from many perspectives. Eight sessions, grades 7-10.

#GEMS-2816. $29.95.

ENVIRONMENTAL DETECTIVES. GEMS. Students in grades 5-8 utilize their reasoning skills to find out what is causing problems, from chlorine pollution to acid rain, erosion and sediment pollution, algal blooms and water pollution. As with all the GEMS guides, activities are multidisciplinary and can easily be modified to fit individual classroom needs.

#GEMS-9423. $27.95.

ACID RAIN. GEMS. Students construct "lakes" and then determine how pH changes after normal and acidic rains. Town hall meetings are used to discuss solutions where students analyze issues from scientific and social perspectives. Also use with GEMS River Cutters and Global Warming guides. Eight sessions, grades 6-10.

#GEMS-2817. $22.95.

CHEMICAL REACTIONS. GEMS. Ordinary ziplock bags become laboratories for studying how chemicals change color, produce gas, and mix to produce heat, cold, and odor. Great introduction to the field of chemistry. Features three sessions, perfect for grades 6-10.

#GEMS-3062. $9.95.

OWLS AND OWL PELLETS CURRICULUM MASTERY® FLIP CHART SET. This useful supplement features 10 double-sided, laminated charts, each 12" x 18" and spiral-bound on a durable, free-standing easel. Charts include: Owls—Birds of Prey; The Barn Owl; Owl Food Web; Owl Pellets; Dissecting an Owl Pellet; Rodent Skeleton; Vole Skeleton; Mole Skeleton; Shrew Skeleton; and Bird Skeleton. Side one of each chart features a graphic overview of the topic while Side two serves as "write-on/wipe-off" activity chart. Also includes an Activity Guide featuring blackline masters and additional exercises that are perfect for owl pellet dissection labs. For grades 5-9. #PO-18515. $35.95 ea. 3 or more, $33.95 each.

STUDENT OWL PELLET KIT. Includes owl pellet study guide, forceps, magnifying lens for closer study of bones and teeth, and three jumbo, sterilized owl pellets. Reconstruct an owl’s prey by piecing together the bones. #KIT-2607. $17.95 each. 12 or more, $16.95 each.

QUALITY OWL PELLETS. Pellets consist of undigested hair and bones that owls spit up following a meal. As such, they contain valuable clues to what the owl was eating and the habitat in which the owl was hunting. Identify bones using bone charts or display your findings in the glass-topped displays offered by Acorn Naturalists. All our pellets are screened for quality and size, heat-treated, wrapped in foil, and stored in sealed plastic bags to eliminate infestation by insects. The owl pellets we offer are extremely high quality large specimens, averaging 1-1/2" to 2" long. #T-2608. $2.29 each. 30 or more, $1.89 each.

STUDENT FORCEPS. High quality 5" spring metal forceps with rounded, non-piercing tips. Ridges on outside of the handle and grooves on the inside provide a firm grip. These reasonable metal forceps last much longer than plastic equivalents and are very useful when sorting owl pellet bones. #T-2288. $3.95 each. 30 or more, $2.95 each.

ANGULAR FORCEPS. This quality 5” spring metal forceps has a non-piercing angular tip. Ridges on outside of the handle and grooves on the inside provide a firm grip. Similar to our straight forceps; some individuals prefer the angular when probing owl pellets or for other forceps uses. #T-16147. $3.95 each. 30 or more, $2.95 each.

PHYSICS SOLAR WORKSHOP DISCOVERY KIT. The energy we use originates as energy from the Sun—this kit explores the topic of solar energy, focusing on energy capture using photovoltaic cells. By building 12 models and conducting 30 experiments, students will learn how solar cells transform light into electrical energy, and how motors and mechanical devices optimize the work done by this energy. Build different vehicles and machines to demonstrate how gears can convert and transform power for different needs. Includes 320 parts and a 64-page manual. Ages 8 and up. #KIT-14719. $64.95.

SOLAR POWER. Photovoltaic Energized Vehicles. Build your own solar-powered models and discover how solar cells generate electricity from light. Solar powered models include a locomotive, single-prop plane, helicopter, backhoe, and twin-rotor helicopter. The special solar panel in this kit consists of three solar cells and generates 1.5 volts of electricity in bright sunlight, like an AA battery. A unique cradle holds either the solar panel or a battery, allowing you to switch out the solar panel for an AA battery (not included), depending on the strength of sunlight. The solar panel is positionable, so you can maximize its exposure to the Sun to generate the most power. The 24-page color instruction book gives step-by-step instructions for assembling the six model vehicles. The 177 building pieces in this set are compatible with those in the Physics, Wind Power, and Hydropower kits. For ages 8 and up. #KIT-18506. $44.95.