Instructional Kits

**Poultry mAgic**
*ILAK-20
Price: $144.00

AK-20
Price: $180.00

Students will uncover interesting facts about U.S. poultry production through exercises and hands-on experiments. They’ll learn about the anatomy and nutritional value of an egg. They’ll also learn about the history of egg production and find out how poultry dishes are prepared around the world. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**
AK-20.2
Price: $35.00

**Insect mAgic**
*ILAK-21
Price: $335.00

AK-21
Price: $385.50

Students will learn about the impact of insects on crop production through a variety of lessons and activities. Mapping exercises let students follow butterflies on migration patterns. Students track a day in the life of an insect and learn about wingspan, life cycles, anatomy, and social hierarchy patterns of common insects. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**
AK-21.2
Price: $35.00

**Soil mAgic**
*ILAK-22
Price: $385.75

AK-22
Price: $444.00

Soils are alive, as students will discover through the lessons in this kit. Students will learn to conduct experiments in soil pH, create soil profiles, and understand the components of soils. They will also unveil the history of crop rotation and dig into the Dust Bowl. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**
AK-22.2
Price: $35.00
**Instructional Kits**

**Dairy mAGic**
*ILAK-23
Price: $299.75

AK-23
Price: $345.00

Hands-on exercises let students explore the processes of using milk, acids, enzymes, and bacteria to make cottage cheese, yogurt, and ice cream. Students will find out how much milk one cow produces in its lifetime. They’ll also dive into history, and they’ll learn about issues of supply and demand in the dairy industry. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**
AK-23.2
Price: $35.00

**Plant mAGic**
*ILAK-24
Price: $367.50

AK-24
Price: $422.75

This kit offers problem-solving activities in plant propagation, production, and processing. Students will conduct experiments to learn about plant differences and plant ecosystems. They’ll also sequence plant products, research the discoveries of George Washington Carver, and look at the impact of crops on the national economy. Kits include a printed activity guide in a 3-ring binder.

**Activity Guide, (CD-ROM Only)**
AK-24.2
Price: $35.00

**Machine mAGic**
*ILAK-25
Price: $336.50

AK-25
Price: $386.75

Students will learn about the history of farm machinery and the impact of modern farming techniques on families and communities. They’ll also learn how inventors John Deere and Cyrus McCormick helped shape modern agriculture. Hands-on exercises let students identify machinery parts and estimate farm machinery costs.

**Activity Guide, (CD-ROM Only)**
AK-25.2
Price: $35.00
**Horticulture Science Kit**  
*ILAK-26, Price: 214.50

AK-26, Price: $247.50

What’s the role of science in horticulture? The materials in this kit are designed to teach students in grades 7 to 12 about science and how it impacts today’s horticulture industry.

The curriculum covers the major aspects of horticultural science. Students will become familiar with plant taxonomy, and they’ll learn how to grow plants in soil and in soil-less media. They’ll get introduced to plant pests and how to control them. Lab exercises help students understand plant breeding and genetics. A section is devoted to the impact of biotechnology on ornamental horticulture, and students will learn how to conduct DNA analysis to match offspring to parents.

The Horticulture Science Kit includes lesson plans, exercises, student handouts, and quizzes. Each kit is sold as a complete package with printed curriculum and a CD-ROM-version, as well as necessary components for activities and exercises. A CD-ROM with all printed materials may also be purchased separately.

**Horticulture Science Curriculum CD-ROM**
AK-26.2 Price: $35.00

The CD-ROM recreates the printed curriculum guide in the Horticulture Science Kit as an Adobe Acrobat document. The 73-page document can be viewed on screen, printed by section or the entire document, including student worksheets and transparency masters. Included are 5 lessons on plant taxonomy, growing media, plant pests, plant breeding and genetics, and biotechnology. The freely distributable Adobe Acrobat Reader is included on the CD-ROM.

**Horticulture Careers Kit**  
*ILAK-27, Price: 154.00

AK-27, Price: $177.25

What are the career opportunities if you like to work with plants or landscaping? This kit introduces students to the different areas of the horticulture field. Through hands-on exercises and activities, students learn about a variety of careers in horticulture, including landscape design, turf management, retail industry, marketing, and new product development.

Activities and lessons are designed to help students understand how they can apply skills and interests they already have in today’s horticulture industry. The students will become familiar with the culture, terms, and responsibilities in each employment area.

The materials are appropriate for students in grades 7 to 12.

The Horticulture Careers Kit includes lesson plans, exercises, student handouts, and quizzes. Each kit is sold as a complete package with printed curriculum and a CD-ROM-version, as well as necessary components for activities and exercises. A CD-ROM with all printed materials may also be purchased separately.

**Horticulture Careers Curriculum CD-ROM**
AK-27.2, Price: $35.00

The CD-ROM recreates the printed curriculum guide in the Horticulture Careers Kit as an Adobe Acrobat document. The 53-page document can be viewed on screen, printed by section or the entire document, including student worksheets and transparency masters. Included are 9 lessons on careers in horticulture, ranging from landscape design to retail, marketing, and research.
**Instructional Kits**

AK-28  
**Illinois mAGic Kit**  
Price: $550.00

This kit is a multidisciplinary, all-inclusive curriculum that is designed to teach students about agriculture through active discovery. Students learn about a variety of topics ranging from the prairie landscape to the Chicago stockyards, the Lincoln-Douglas debates, and the forests of Southern Illinois.

The kit includes 8 math, 10 English language arts, 11 social studies, and 7 science lessons focused on the state of Illinois. Lessons can be selected to match your region of the state.

The lessons meet Illinois State learning standards for grades 4 to 8.

The Illinois mAGic Kit is sold as a complete package that includes necessary components for each lesson, as well as a printed curriculum manual and a CD-ROM version. The CD-ROM version of the manual may also be purchased separately.

AK-28.2  
**Illinois mAGic Curriculum CD-ROM**  
Price: $35.00

The CD-ROM recreates the printed curriculum guide in the Illinois mAGic Kit as an Adobe Acrobat document. The 470-page document can be viewed on screen, printed by section or the entire document, including student worksheets and transparency masters. Included are 8 math lessons, 10 English language arts lessons, 11 social studies lessons, and 7 science lessons. The freely distributable Adobe Acrobat Reader is included on the CD-ROM.

AK-29  
**Biodiesel Basics: Curriculum and Production Kit**  
$499.00

Teach your students about biodiesel production in the context of global energy issues. This hands-on curriculum includes lesson plans and a complete starter kit to produce biodiesel in the science lab. The content and materials are appropriate for high school science classes. The curriculum contains four lesson plans: introduction to energy, the need for alternative energy sources, the soybean, and biodiesel. Each lesson plan includes a PowerPoint presentation, handouts, lab exercises, and student quizzes and keys. The production kit includes a complete set of materials and supplies to produce 200 ml of biodiesel from raw soybean oil. Very specific instructions and clear safety guidelines are also provided. Lab kit replenishment materials are also available.

AK-29.2  
**Biodiesel Kit Refill Pack**  
$40.00

This refill pack contains additional materials for the Biodiesel Basics production kit. The refill pack includes 1/2 gallon of soybean oil; 370 mL of methanol; six 2.5 g potassium hydroxide pellets packets; three replacement fine discard stones; and one roll of paper towel. This provides materials for six batches of biodiesel.
**Instructional Kits**

**AK-30**

**Plant Breeding Curriculum and Kit**

$325.00

This curriculum introduces students to the field of plant breeding through lessons, activities, and hands-on lab exercises. The curriculum contains four lesson plans, each including student handouts, activities, lab exercises, PowerPoint slides, and student exams with keys. The curriculum is appropriate for 7-12 grades. Lesson topics include plant breeding introduction, history and practice; reproduction in plants; plant genetics; and biotechnology.

The kit comes with a printed workbook, a CD with a PDF of the workbook and PowerPoint slides, as well as most supplies needed to complete the labs.

**AK-30.2**

**Plant Breeding Curriculum and CD-ROM**

Price: $199.00

Printed workbook and CD-ROM only, does not include lab supplies.

**AK-12**

**Biotechnology Applications in Agriculture**

Price: $345.00 (includes CD-ROM)

This kit provides teachers and students an opportunity to get “hands-on” learning experiences with one of today’s hottest topics—biotechnology. The kit contains all the materials needed to conduct each activity of the kit. A teacher’s guide outlines each lesson and activity, and correlates the lessons with Illinois Learning Standards in Science, Social Studies, English and Language Arts, and Mathematics. This kit contains a CD-ROM (can be purchased separately) with multiple PowerPoint presentations.

**AK-12.3**

**Biotechnology Applications in Agriculture CD-ROM, version 1.1**

Price: $45.00

This revised CD-ROM includes 10 Microsoft PowerPoint presentations illustrating the applications of biotechnology in agriculture. It contains a copy of the 67-page activity guide as a Microsoft Word document and in Adobe Acrobat pdf format. The directions for conducting an electrophoresis lab activity are provided using PowerPoint to demonstrate the lab procedures and illustrate the anticipated results. Copies of the pretest, posttest and keys are included along with the activity sheet masters and keys to activity sheets. Bundled on the CD-ROM is a useful readme file and the free Acrobat Reader program. Designed for grades 7 to 10.

**AK-12.1**

**Biotechnology Applications in Agriculture—Consumable Replacement Pack**

Price: $135.00
**AgriLearning Kits (appropriate for grades K to 6)...............**

**AK-13**  
**Pondering Pizza: A Slice of Agriculture**  
Price: $337.75

First in a series of agriLearning kits designed to reinforce language arts, reading, mathematics, social science, and agriculture for grades K to 6. Pondering Pizza provides a unique way to learn about food, plants, and animals. By looking at a slice of pizza, users will learn how all the ingredients begin on farms, are processed, distributed, and made into a tasty meal. Students will explore Planet Pizza via video and visit a real “pizza farm.” Includes a pizza fractions game and many other resources.

**AK-14**  
**Dairy Cow Capers: Exploring Dairy Farming and Nutrition**  
Price: $260.25

Explore dairy farming in action. Through videos and books, experience the life of dairy cows on the farm and see a veterinarian at work. Follow the path milk takes as it travels from cow to you. Learn about the nutritional value of dairy products and try your hand at making butter. This kit may be used alone or as a perfect supplement to agriscience kit AK-07 Dairy Delights—Good Nutrition from Milk. Activities can accommodate up to 30 students.

**AK-15**  
**Getting to the Core: Apples and Orchards**  
Price: $340.00

How do apples grow? Where do all the varieties of apples come from? Learn the answers to these questions and more. Take an inside look at apples and their history. Getting to the Core: Apples and Orchards includes hands-on activities and games, things to make and things to eat, videos, posters, and books.
**AK-17**

**Eggsploring Poultry: Cracking the Egg**

*Price: $265.00*

Crack the mystery of eggs and see a miracle in 21 days! Eggsploring Poultry is filled with books on embryology, videos, poultry facts, games and other hands-on activities.

**AK-18**

**Pumpkin Patch: A Vine Through Time**

*Price: $283.00*

Discover the wonders of pumpkins. Watch tiny seeds grow into several varieties of pumpkins in a time-lapse video and learn how to prepare the soil for next year's crop. The Pumpkin Patch contains posters, books, hands-on activities, recipes, and fascinating pumpkin facts.

**AK-19**

**Feedstuff Education**

*Price: $165.00 (complete kit)*

Feedstuff Education Kit is designed to assist in the instruction of feeds and animal nutrition. This instructional material includes 27 commonly used feed ingredients and 6 processed feeds packaged in protective plastic jars.

The kit includes an instructor's CD-ROM. The CD-ROM is an onscreen instructional material composed in PowerPoint. Information included on the CD-ROM is feedstuff sources, feed processing, nutritional composition, and terminology. Term quizzes, keys, and student handouts also are included.

**AK-19.2**

**Feedstuff Education, (CD-ROM only)**

*Price: $38.50*