



# Rock Island County Agriculture in the Classroom

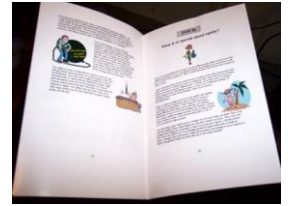
## Educator Resources



# Educator Resources from Illinois & Rock Island County Agriculture in the Classroom

## Booklets & Lessons

- **100 Days of School, 100 Days of Agriculture** - This booklet celebrates the 100th day of school with 100 cross-curricular, agriculturally-related activities. **Grades K-4.**
- **A Hog Ate My Homework Lessons** – Activities to complement the book by Gary Metivier. As we join Willie for his second adventure, we find that the mix of fiction and non-fiction help to impart important lessons to young readers. This book provides a wonderful opportunity for classroom teachers to encourage students to read and learn about agriculture and its importance in today's society. The activities are intended to be used as supplemental learning material. Lessons correlated to the Illinois State Learning Standards and Assessment Framework. **Grades 2-6.**
- **AG = E5: Inquiry Based Lessons from IAITC** - This booklet combines the basic principles of Inquiry Based Learning with Illinois Agriculture in the Classroom's Ag Mags available from your county's Agricultural Literacy Coordinator. The Ag Mags provide the entry point to further explore a topic or idea through an inquiry approach. The lessons in this booklet feature the following Ag Mags: Apple, Soil, Pork, Dairy, Pumpkin, Corn, Beef, and Pizza. **Grades 1-8.**
- **Ag in a Plain Brown Wrapper**- Reduce, Reuse, Recycle!!! Create these ag-themed art projects using a plain brown wrapper or brown paper bag. These projects are a great way to either kick off or wrap up studying an Ag topic. Many of them involve reading different Illinois Ag Mags. **Grades 1-6.**
- **Ag, Paper Plates, & You** - This packet was created by the Illinois Farm Bureau® Agriculture in the Classroom Program. It contains 25 agricultural activities using paper plates. The corresponding packet, "Ag, Ziplocs®, & You" may also be printed at the Illinois Agriculture in the Classroom website
- **Ag, Ziplocs** - A packet with ten lessons using Ziploc® bags and Agriculture. **Grades K-4.**
- **AITC Through the Seasons** - The AITC through the Seasons booklet is designed to help ag literacy professionals organize and plan teacher workshops and classroom presentations. This concept began as a workshop series helping teachers bring agricultural lessons into their classrooms during the appropriate seasons of the year. The booklet provides brief background information, activity suggestions, books, and videos to help teachers educate their students about the topics provided. **Grades K-6.**
- **Almanac Activity Booklet** - The IAITC Farmers' Almanac booklet provides activities focused on how farmers use the Farmers' Almanac as a resource to make decisions related to planting and harvesting crops. Other activities capture the almanac's Ag-themed fun and folklore. **Grades 3-8.**
- **April Foolishness Lessons** - Don't be a fool!! This lesson booklet is a great story choice for April Fool's Day or a farm-themed unit. No joking about it, these activities will be a great way to introduce your students to agriculture while meeting learning standards. The lessons and activities in this booklet can be used as supplemental learning materials in the areas of science, social studies and language arts. All lessons and activities are correlated to the Illinois State Learning Standards and Assessment Framework and are designed to complement the book "April Foolishness" by Teresa Bateman.
- **Bean Team DVD Lessons** – This IAITC booklet was created to complement the United Soybean Board's **The Bean Team: Soy Educational DVD Series**. The soybean has many important roles in our lives, from the food we eat to even some of the products we clean with. This booklet is designed with the student audience in mind. These activities can be used in your classroom as supplemental learning in the areas of science, social studies, and math.



- **Beef and Nutrition Booklet** - This IAITC packet provides activities focused on the healthy benefits that beef provides and nutrition. Other activities examine the difference between beef and dairy cattle as well as one famous cow's role in Illinois history. Plus, there are great nutrition activities for students about meal planning. Use this packet along with other beef and nutrition information as a useful tool for your classroom. **Grades 1-8.**
- **Blooming with Bloom's and Gardening with Gardner's** – This booklet that explains how to use Bloom's Taxonomy and Gardner's Multiple Intelligences specifically to teach agriculture in the classroom. **Grades K-8.**
- **Candy, Culture, & Creativity** - A teaching unit created by the Illinois Ag in the Classroom Program of the Illinois Farm Bureau®, the Candy College® Library, and the Illinois Center for Food Safety and Technology. Build your own "Candy, Culture, and Creativity" kit using this lesson plan booklet, the "Agriculture: Where Candy Comes From" reference booklet, materials for the lessons, and selected books, videos, and brochures. **Grades 2-6.**
- **Change for a Dollar** - How does our money have an impact on agriculture? This AITC booklet explores the individuals featured on U.S. currency and their contributions to ag. **Grades 3-8.**
- **Enviro Ag Lesson Packet** - This IAITC booklet is designed to provide lessons focused on environmentally- and agriculturally-friendly, science-based activities using household materials and a healthy dose of experiential learning. **Grades 2-6.**
- **Exploring Corn** – Did you know that there are six different types of corn throughout the world? This IAITC booklet offers cross-curricular activities for students to explore dent corn, sweet corn, and popcorn. Also included is information about broom corn, a type of sorghum, which is in the same family as corn. The booklet contains a brief overview of each and highlights their importance as an Illinois commodity. **Grades 1-8.**
- **GED-Get Educated Daily** - Activities and Lessons to help prepare for the GED.
- **Green Eggs and Agriculture** – An engaging collection of ideas to celebrate agriculture through Dr. Seuss' Books and Read Across America Day. This packet explores ideas for *The Cat in the Hat, Mr. Brown Can Moo, Can You?, Green Eggs and Ham, Oh Say Can You Seed*, and more! **Grades K-5.**
- **Horse Lesson Plans** – Horses have been useful animals for thousands of years. The horse has served human beings as a very important tool in progressing with the times. It was once stated, "history was written on the back of a horse." **Grades 4-6.**
- **Illinois Agriculture -Innovation and Invention** – Use this interactive CD Rom and materials to see how agriculture played an important part in shaping the history of the state of Illinois.
- **ISATs: 10 Minutes A Day The IAITC Way!** - In an effort to incorporate a more holistic educational approach and to help prepare students for the ISAT test, we have developed these activities for use in the classroom. Our goal is to give teachers 20 weeks worth of review materials to use to prepare for ISAT testing. The activities are intended to take no more than 10 minutes a day and to use our Ag Mags as a resource. **Grade 4.**
- **Nutrition Lessons** – Developed to compliment the new Nutrition Ag Mag, this booklet contains five lessons in which students will learn about food groups, portion sizes, nutritional value, and the different foods people consume around the world. **Grades K-6**
- **Renewable Energy Lesson Booklet** – IAITC's lesson booklet designed to complement the Renewable Energy and Tree Ag Mags. Energy has many important roles in our lives, it basically touches almost every aspect of our daily lives. It powers our transportation, it heats and cools our homes and provides us with energy to cook our food.
- **Specialty Crops Lessons** – Agriculture is Illinois' top industry, employing nearly a quarter of the state's workforce. While best known for its corn and soybean production, it is also a leader in the specialty crop industry. The specialty crop industry in Illinois brings in hundreds of millions of dollars each year, and continues to grow and expand. The lessons and activities in this booklet can be used as supplemental learning materials in the areas of science, social studies and language arts. All lessons

and activities are correlated to the Illinois State Learning Standards and Assessment Framework and are designed to complement the Illinois Specialty Crops Ag Mag. **Grades K-6.**

- **Super Soybean Booklet** - Welcome to the world of the Super Soybean!! This IAITC booklet was created to compliment the book “The Super Soybean” by Raymond Bial. The soybean has many important roles in our lives, from the food we eat to even some of the products we clean with. This booklet is designed with the student audience in mind. These activities can be used as supplemental learning in the areas of science, social studies, and math and are correlated to the Illinois Learning Standards. **Grades 1-8.**
- **Very Hungry Illinois Caterpillar** - This activity has been adapted from the book The Very Hungry Caterpillar by Eric Carle. See the caterpillar eat its way through numerous Illinois crops and turn into a beautiful Monarch Butterfly!

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### **Ag Mags**

The Illinois Agriculture in the Classroom *Ag Mags* are 4-page, colorful agricultural magazines for kids. They contain information about agriculture, bright pictures, classroom activities, and agricultural careers. Ag Mags are correlated to Illinois State Learning Standards. Viewable in PDF form at [www.agintheclassroom.org](http://www.agintheclassroom.org)



#### **Ag Mags available for Download or from your Agriculture Literacy Coordinator**

- **Apples:** Explore apple production, history, growth and varieties. Strong focus on Social Sciences standards.
- **Beef:** A look at nutritional value, cuts of beef, products, breeds, and the stomachs of ruminant animals. Focus on Physical Development and Health standards.
- **Biotechnology:** Basic concepts and agricultural benefits of biotechnology with a strong emphasis on History, Geography, Science, Technology and Society.
- **Careers:** A look at jobs in agriculture, both farming and non-farming, and projected employment opportunities. Strong Social Science correlation. (PDF ONLY)
- **Corn:** A look at corn, diversity of products, and a strong emphasis on corn as a renewable resource for use in ethanol and corn plastic.
- **Dairy:** Follow the route of dairy from the farm to the store to your home to your body. Emphasis on Nutrition.
- **Earth Week:** Explore how agriculture is a vital part of the environment. Social Science and Science standards are emphasized. (PDF ONLY)
- **Horse:** Explore horses in the past and the present day. Strong History emphasis, as well as Math activities.
- **Horticulture:** Read all about the horticulture industry and what careers students can take in the industry. This Ag Mag is written at a sixth to eighth grade level and involves high vocabulary, facts, and figures, but with real-life pictures and a great background, elementary students can understand and learn a lot from this Ag Mag as well.
- **Illinois:** Take a trip back to a 50s-style diner to learn about Illinois commodities. Learn about diner slang, food prices then and now, and towns important to the food industry.
- **Nutrition:** Focuses on consumption agriculture and uses the food guide pyramid and exercise to optimize nutrition and fitness. Emphasis on Physical Development and Health.
- **Pizza:** From crust to ingredients to the final product – learn how agriculture is involved. Emphasis on Social Science and Math standards.
- **Pork:** Care of livestock as well as a strong emphasis on the environmental aspect of pork production.

- **Poultry:** Science, Social Science, and Math standards are addressed through studies of embryology, chickens and turkeys. (PDF ONLY)
- **Pumpkin:** Language, Science, and Social Science standards are address through genetics, blossom dissection, Thanksgiving, and Halloween.
- **Renewable Energy:** This Ag Mag examines various forms of Renewable Energy, specifically those with direct agricultural connections.
- **Sheep:** Fiber production from farm to garment provides an opportunity to address Science, Economic and History standards. (PDF ONLY)
- **Soils and Fertilizer:** Erosion, soil profiles, and usable land for food production are examined through Science-based standards. (PDF ONLY)
- **Soybeans:** The versatile soybean is examined with an emphasis on Nutrition, Economics and Geography. Math and Science standards are also addressed in this issue.
- **Specialty Crops:** Discover many of the specialty crops and products grown in Illinois! English, Science, and Social Science standards are addressed.
- **Technology:** Technology, from simple machines to global positioning satellites, is examined through Math and Science standards.
- **Trees:** Learn about planting trees, parts of trees and environmental benefits from trees and “going green”!
- **Water:** The water cycle, water transportation, water pollution, and water conservation are addressed through Math and Science standards. (PDF ONLY)

### ***mAGic Kits***

Open the doors...of active discovery and watch your students explore the depths of the Agriculture industry. The lessons in the mAGic kits are multidisciplinary, all inclusive, and designed to bring math, science, social studies and English to life through agriculture in every classroom.



Sim Sala Bim! Engage he, her or him...with learning English, math, science and social studies through agriculture. The mAGic kits address the Illinois Learning Standards. mAGic kits include all of the necessary components to allow students to develop skills in Math, Science, Social Studies and English Language Arts, grades 4<sup>th</sup>-8<sup>th</sup>. The kit lessons include exercises in:

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|--------------|---------------------------|
| • mapping    | • writing                 |
| • graphing   | • experimentation         |
| • sequencing | • research and much more. |
| • reading    |                           |

**These kits are available on a free-loan basis. Kits may be reserved in advance. Available Kits include:**

- Careers in Horticulture—Make students aware of the wide variety and available opportunities that wait in the horticulture industry.
- Dairy—Students demonstrate the processes of using milk and acids, enzymes, bacteria, heat, and cold to make cottage cheese, yogurt, and ice cream.
- Horticulture Science—Make students aware of the science connections that exist to common applications in the horticulture industry.
- Illinois—See the 7 wonders of Illinois, and tour Illinois Indian cultures. Experience the Lincoln-Douglas debates, meet famous Illinoisans, and discover all the great things that come from Illinois.
- Insect—Study the parts of a grasshopper, compare honey bee queens, drones, and workers, and study the role of the honeybee in plant pollination.
- Machinery—Learn about the history of farm machinery and the impact of modern farming techniques on families and communities.
- Plant—Conduct experiments in plant differences and plant ecosystems.

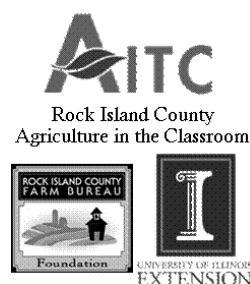
- Poultry—Graph incubation periods, explore osmosis, and discover poultry dishes.
- Soil—Conduct experiments in soil pH, and create soil profiles.

### **Agri-Learning Kits**

These kits are designed for K-5 grades to provide a selection of activities and necessary supplies to teach about the chosen topic or theme while addressing Illinois Learning Standards across all subject areas. They are intended to be "resource materials" kits. While some hands-on supplies are provided, because of the number of activities included in the various books and guides within each kit, such supplies are only included to complete some of the lessons. Each kit comes with a teacher's guide, video, books, and lots of other resources. **These kits are available on a free-loan basis. Kits may be reserved in advance. Available Kits include:**

- Seasons on the Farm
  - Students will learn that while we go to the store to purchase our food, it begins with plants or animals raised on farms. Different seasons provide us with a variety of foods and other products. From the farm, products are transported, processed, marketed and distributed, involving a multitude of agricultural careers in this chain of events. Through this kit, students will discover that they all depend on agriculture every day of their lives.
- Adventures Around the Farm
  - Students will also learn that there are many different kinds of farms. Students will learn that while we purchase our food from the store, it begins with plants or animals raised on farms, which are the heart of the agriculture industry. From the farm, products are transported, processed, marketed and distributed, involving a multitude of agricultural careers in this chain of events. Through this kit, students will discover that they all depend on agriculture every day of their lives.
- The Wheat We Eat
  - Teach your students how wheat is grown, milled, and then made into foods worldwide using the science, math, reading and social studies lessons included in this curriculum. Besides the core subjects, you will also find lessons to expand the curriculum with arts and crafts projects, songs, poetry, and books.
- Top 40 Hits of Planet Earth
  - A compilation of 40 great environmental activities and lessons that celebrate the planet Earth. These activities include lessons about soil, water, recycling, trees, renewable energy, habitats, and more.
- Pigs on the Farm
  - The lessons and materials in this kit will help students understand what pigs are, what farmers do to take care of pigs, and how people benefit from pigs. Pigs provide us with a variety of food and non-food products. Through this kit, students will discover that they all depend on agriculture each day of their lives.

### **To request any of the items you have seen in this brochure, please contact:**



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