

IQhub Program List



Interested in bringing your group or class to visit the IQhub and have an educational program? We have many available options that we can customize to fit your needs! Below is a list of activities we currently provide, but we are always willing to customize programs for teachers and the various learning objectives!!!

Pre-K thru 2nd Grade

- Programs 45 minutes-1 hour
 - o **Farm to Fork (Make butter):** Where in the world does our food come from? Farmers of course! Join in the conversation to learn how many of our favorite foods are grown and even make a special treat! (Please let us know if your group has any food allergies)
 - o **Orchard to Glass (Make cider):** Did you know that bees and apples rely on each other? Bees play a big role in all sorts of crops, including apples! Together we will explore the importance of bees and process of turning apples into cider! Students will also compare and contrast cider to juice.
 - o **The Three Sisters (Start your garden):** Who are the three sisters? What do they do? This lesson looks into Native American Culture and the life cycles of plants. Come enjoy the story and start your garden.

Activities

- o **IQhub Scavenger Hunt (Lower Elementary Version):** 45 minutes-1 hour Students will work in groups, with their chaperones, to explore the IQhub. This is where they can see the 24 museum quality exhibits and learn all about agriculture.
- o **Kids Korner:** 10 minutes minimum Available as a special get away for our younger visitors, the Kids Korner offers books, games and hands-on activities for even the youngest of agriculture enthusiasts.
- o **Living Necklace:** 15-20 minutes This activity is all hands on deck! Students will explore the world of plants under the soil, as they "plant" seeds and watch as their body heat helps them to grow.
- Plant Needs Bracelet: 15-20 minutes The Plant Needs Bracelet allows students to understand the requirements plants need in order to grow. Using beads and pipe cleaners, students will create their bracelets that will help them remember when they plant their garden. (Commonly paired with the "Living Necklace".)

3rd thru 5th Grade

- Programs 45 minutes-1 hour
 - o **Field to Fitness (Explore healthy habits):** Explore how decisions we make every day, such as the food we eat and how much we exercise, can affect our lives in a big, big way! Students will learn about a wide range of things, from food selection at restaurants to resting and elevated heart rates.
 - o **Plant Picasso (Paint with plants):** Students will learn how plant color is a good indicator of plant and soil health, as well as plant development. Come see these colors in action as the students create their paintings with the help of fruits and vegetables! (Please note that paint could stain clothes.)
 - O Vermicomposting (Make dirt cups): This lesson will allow students to dig a little deeper into the lives of our composting friend, the worm! Jump on in and learn the good, the bad and the wiggly facts of vermicomposting! (Please let us know if your group has any food allergies.)
 - Water Cycle (Make clouds): Dive into this lesson and make a big splash! Our planet is made of approximately 75% water, but how does it move? This interactive lesson plan will allow students to experience the water cycle in new and exciting ways!

Activities

- o **IQhub Passport Explore**: 45 minutes-1 hour Students will be given the opportunity to work in small groups to complete a fun activity book. This booklet will guide them through the IQhub, as they visit each exhibit and collect information about the history of fertilizer and agriculture!
- O Are You Smarter than a Farmer? 30 minutes Put your knowledge to the test in this trivia game. Learn and discuss topics in agriculture, while competing for a prize!
- o **Environmental Walking Trail:** 30 minutes Get outside, stretch those legs and learn about the importance of caring for the environment. Erosion, wetlands and habitats are important topics here.
- Life Cycle of Corn: 30 minutes This activity allows students to understand how a seed works and examine the growth stages of a corn plant. Students will create a foldable to help them remember the cycle.
- O North Central Research Station Tour: 1-1.5 hours, plus travel time **** Come learn about the exciting science and research that goes into successful farming. Students will see important farming practices (these will vary based on time of year), talk about different soil types, observe weather stations, learn about the latest technology and see a variety of crops that AgroLiquid researches their products on.

****- Availability limited to April-October and on personnel availability

6th to 8th Grade

- Programs 45 minutes-1 hour
 - o **Birds and Bees of Plants (Plant reproduction):** Students will explore the plant structures and what role they play in plant reproduction. The various life cycles will be explained, as well as the importance of seeds and fruit. Students will understand how symbiotic relationships are essential to plant reproduction.
 - o Careers in Agriculture (Middle School Version): When you think of jobs in agriculture, what do you think of? Most people would say "vet" or "farmer". While those answers are true, there are so many more careers out there that all relate back to agriculture. Select this program to learn how many there are!
 - o **Forestry (Evaluate trees):** Students will learn why it's important to conserve our natural resources and our animal habitats. With a growing world population, they will see why we all must do our part to preserve our planet! Students will learn how to measure trees and decide when its best to cut them down or keep them for animals!
 - O Plant Picasso (Paint with plants): Students will learn how plant color is a good indicator of plant and soil health, as well as plant development. Come see these colors in action as the students create their paintings with the help of fruits and vegetables! (Please note that paint could stain clothes.)
 - o **WWW Wonderful World of Water (Water quality):** This lesson allows students to investigate just how lucky we are to live in the Great Lakes State! Students will discuss how people are affected when water quality is compromised and they will come up with a plan to help. This program will open student's eyes to other water issues around the world, as well.

Activities

- o **IQhub Scavenger Hunt (Middle School Version):** 45 minutes-1 hour Students will be given the opportunity to work in small groups to complete an informational scavenger hunt worksheet. The worksheet will guide them through the IQhub, as they visit each exhibit and collect information about the history of fertilizer and agriculture!
- St Johns Woodlot Experience: 45 minutes-1 hour, plus travel **** Come apply what you've learned in the
 Forestry Program! This is a fun activity to realize just how important trees are, not only as a natural
 resource, but as animal habitats too.

North Central Research Station Tour: 1-1.5 hours, plus travel time **** Come learn about the exciting science and research that goes into successful farming. Students will see important farming practices (these will vary based on time of year), talk about different soil types, observe weather stations, learn about the latest technology and see a variety of crops that AgroLiquid researches their products on.

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9th to 12th Grade

- o Programs 45 minutes-1 hour
 - Ag Issues 101 (Topics in agriculture): This science packed presentation will help students realize how important technology and education are in today's society! Students will discuss how the world's population is growing at an alarming rate and our planet can only handle so much stress. Come explore the various ways technology and education can help our soil, water and energy resources!
 - o Careers in Agriculture (High School Version): In the 21st century, it is far more than just cows, sows and plows, it's marketing, research, and so much more! This program can either feature some guest speakers from the agriculture industry or tips and tricks about landing a career. (Fits best with high school juniors and seniors.)
 - o Cool Chemistry (Demonstration and tour): Dive into the world of chemistry and see how it applies to your everyday life. Students will have the chance to learn from an AgroLiquid Chemist and possibly get a tour of our chemistry lab.
 - o **How Important is the Soil? (Land conservation):** Students will learn why it's important to have healthy soil. With a growing world population and a limited supply of fertile land, they will see why we all must do our part to preserve this precious resource! From consumer to producer, it's important we all understand the soil properties and how the color, texture and slope can influence the food and fiber we use!
 - o **Introduction to Genetics (Heredity and traits):** Genetics is a very exciting topic... Especially for plants! Students will learn what DNA is, what it's made of and how it affects the outcome of your garden. The punnet square, GMOs and advancements in genetic engineering will also be discussed.

Activities

- o **IQhub Scavenger Hunt (High School Version):** 45 minutes-1 hour Students will be given the opportunity to work in small groups to complete an informational scavenger hunt worksheet. The worksheet will guide them through the IQhub, as they visit each exhibit and collect information about the history of fertilizer and agriculture!
- o **LEED Certification Building Tour:** 20-30 minutes ** AgroLiquid and the IQhub feel that it is our duty to ensure our world is left, far better than how we found it. Here we strive to leave a Zero Footprint on the Earth....but what does that mean? Join us as we give you the tour of our beautiful headquarters, and begin to understand what it means to LEED!
- O North Central Research Station Tour: 1-1.5 hours, plus travel time **** Come learn about the exciting science and research that goes into successful farming. Students will see important farming practices (these will vary based on time of year), talk about different soil types, observe weather stations, learn about the latest technology and see a variety of crops that AgroLiquid researches their products on.
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Post-Secondary

- Programs 45 minutes-1 hour
 - o "Real Science" NCRS, what's the research all about? (Scientific method at work): All activities associated with the research facility are season dependent and may not be available during certain times of the year.
 - o **AgroLiquid Commitment to Environmentally Friendly Products (Demonstration and tour):** AgroLiquid and the IQhub feel that it is our duty to make sure our world is left, far better than how we found it. That's why we strive to become great stewards of the land and ensure that our products are good for environment.
 - o **4R's of Nutrient Management (Right ways in farming):** Join us as we explain the 4R Nutrient Management System and the importance of responsible nutrient management! With a growing human population and an increase in technology, it's so important to understand the right steps we can take to help make a difference.

Activities

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Please contact us today for more information on any program or activity listed above. Remember, all programs can be modified and new programs will be created, to meet the needs of the teachers and the various learning objectives!!!

We look forward to working with you at the IQhub soon!!!

Please contact Emily for more information:

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