2017 EDUCATIONAL EXPOSITION FIELD TRIP PLANNING GUIDE

STATE FAIR OF VIRGINIA

FIRST PLACE ★★ for ★★ FIELD TRIPS

SEPT.29 - OCT.8

Gates open at 10 a.m.

we're game for education

Presented by the Virginia Lottery

Virginia's Largest Outdoor Classroom

EXPERIENTIAL LEARNING AWAITS YOU AT THE 2017 STATE FAIR OF VIRGINIA!

Dear Educator:

If you have conducted field trips to the State Fair of Virginia's Educational Exposition, welcome back!

If this is your first field trip to the Ed Expo, we're delighted you saw the academic value of this event, and we hope this guide helps you plan your visit to **"Virginia's Largest Outdoor Classroom"!**

Please review all directions prior to arrival at the State Fair, and feel free to call with any questions or concerns. Our goal is to make your field trip as hassle-free and enjoyable as possible. This planning guide will help you offer structured learning experiences to elementary, middle and high school students.

Our Mission

To increase agricultural and natural resource awareness, interest and education in Virginia through programs, exhibitions and competitions integral to the operation of the State Fair of Virginia.

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SOL Look for the SOL icon throughout this guide to learn how specific stops relate to Virginia's Standards of Learning.

Stay up to date all year: StateFairVa.org

TEACHERS!
Plan your field trip to **"Virginia's Largest Outdoor Classroom"**

Thank you for helping us preserve natural resources by printing this guide only as needed!

STANDARDS OF LEARNING

The Educational Exposition at the State Fair of Virginia is designed to educate our youth about all the commonwealth has to offer, in a setting unlike any other. "Virginia's Largest Outdoor Classroom" provides students an opportunity to see Standards of Learning come alive and experience agriculture,history, technology and natural resources firsthand.

Specific SOL correlations are identified in this guide for individual Ed Expo Stops. When at the fair, look for signs placed near the corresponding Ed Expo Stops referred to in this guide.

In addition to the SOLs listed with the Ed Expo Stops, the State Fair provides an opportunity to demonstrate in person any number of SOLs to your students.

Elementary school students could:

- Identify recycled or reused materials in Fair exhibits or displays (HE 1.7, S K.10)
- Talk about the importance of hand-washing in disease prevention (HE 2.3)
- Look for meaningful patterns or symbols in the State Fair quilt show (VA 1.14)
- Carry pedometers to collect data on how far they walk around the fair (PE 5.4)
- Create their own map of the fair (H&SS 2.6)

Middle school students could:

- Critique art entered in competitions at the fair (VA 8.19)
- Discuss the watershed that includes The Meadow Event Park (S 6.7)
- Calculate the sales tax on a potential purchase (M 7.4b)
- Write a creative short story based on their visit to the fair (E 6.6, E 7.8, E 8.8)
- Listen to a musical show and discuss characteristics of sound (PS.8)

High school students could:

- Identify genetic characteristics of different cattle breeds in Young MacDonald's Farm (LS.13)
- Measure and see principles of physics at work on midway rides (PH.4, PH.12)
- Develop an electronic ad for the State Fair (C/T 9-12.9)

State Fair of Virginia Emergency Action Plan

The State Fair of Virginia operates under the State Fair Emergency Action Plan, which was developed under the guidance of the fair's Emergency Management and Safety Team for security, fire and emergency medical services. The fair works in conjunction with state, local and private organizations to maintain a safe and positive environment.

In case of an emergency that may require evacuation from the fair facilities, all students will be returned directly to their schools. The State Fair will immediately contact school officials to notify them of the students' return and expected time of arrival.

YOUTH COMPETITION

2017 State Fair of Virginia

Tuesday, September 29:

- **FFA Small Engines Troubleshooting**
  Livestock Pavilion II (2)
- **4H and FFA Dairymen's Contest,** First Bank & Trust Company Pavilion
- **FFA Tractor Troubleshooting**
  Livestock Pavilion II (2)
- **4H Lawn Tractor Safety Contest**
  Livestock Pavilion II (2)

Tuesday, October 3:

- **4H & FFA Crops Judging,** Livestock Pavilion II (2)
- **4H and FFA Junior Foresters**
  Livestock Pavilion II
- **FFA Agriscience Demonstration**
  Special Events Tent in Harvest Landing
- **FFA Horticulture Demonstration**
  Special Events Tent in Harvest Landing

Friday, October 6:

- **4H and FFA Agriscience Research Poster**
  Livestock Pavilion II (2)
- **Forestry Field Day,** Natural Resources Area

State Fair Competitions

Get involved—encourage your students to be part of the fair! The youth arts & crafts and baked good competitions are another great way to showcase the talents of your students. For competition information and online entry, visit **StateFairVa.org.**

The 2017 school/class entry deadline for arts & crafts is Sept. 15. Look for 2018 competition information next summer at **StateFairVa.org.**

FFA and SkillsUSA information is available on those organizations' websites.

SkillsUSA Day – October 2

Monday, October 2, 2017:

SkillsUSA is the organization for students in technical, skilled and service career, including health careers. Formerly known as Vocational Industrial Clubs of America (VICA).

Being a SkillsUSA members is all about being a champion. This means much more than winning a contest – it's the attribute of dedication to personal and professional excellence.

SkillsUSA Day is about students showcasing their new entry level skills. Contests range from fifteen minutes to three hours. Awards ceremonies will be held in each contest area. Business and industry sponsors supplies the judges, supplies and some prizes. More information please visit: **http://www.skillsusava.org**

SOL

English: 10.1, 11.5, 11.8 and 12.1
Math: 2.11, 3.9, 5.8, A 11, and G 14
Science: CH 1, CH 6, PS 1 and PS 11
Virginia Studies VS 10

Contests	Start time	Location
Auto Body	11:00 a.m.	Livestock Pavilion 2
Auto Service	11:00 a.m.	Livestock Pavilion 2
Carpentry	11:00 a.m.	Livestock Pavilion 2
Cosmetology-Fantasy Manikin Comb-out	12:30 p.m.	New Location
Cosmetology-Manikin Comb-out	11:00 a.m.	New Location
Cosmetology-Nail Care	11:00 a.m.	New Location
Cosmetology-Total Fashion Look	12:00 p.m.	Mansion
Culinary: Cake Decorating	10:30 a.m.	Livestock Pavilion 3
Culinary- Knife Skills	10:30 a.m.	Livestock Pavilion 3
Electricity	11:30 a.m.	Livestock Pavilion 2
HVACR	11:30 a.m.	Livestock Pavilion 3
Job Demonstration	10:45 a.m.	Livestock Pavilion 3
Masonry	11:00 a.m.	Livestock Pavilion 3
Promotional Bulletin Board	11:30 a.m.	Livestock Pavilion 3

IMPORTANT FIELD TRIP INFORMATION

Arrival – Please read carefully!

- All buses, vans and cars with school children coming for the Educational Exposition must enter Gate 7, on the left off of Meadow Farm Rd., and proceed to the Bus Parking area (Lot B).
- Private vehicles/cars containing parents or extra chaperones arriving with busses may follow the bus to parking. Those arriving later must enter Gate 8, on the right off of Meadow Farm Road, and park in Lot C. There is no charge for parking. Parents and chaperone who park in Lot C can meet their group at the main ticket plaza before entering the fair. This is the teachers' and parents' responsibility to coordinate.
- Gates open at 10 a.m.

Getting Credentials

This process will take place in Lot B

1. To expedite securing credentials, the lead teacher with Confirmation Letter and payment should disembark the bus prior to parking and proceed to the Ed Expo Check-In. Ed Expo volunteers will review the Confirmation Form, adjust student numbers if necessary and direct the lead teacher to the Ticket Window.
2. Teachers are to collect ALL monies for any extra chaperones and ride wristbands.
3. At the Ticket Window, the lead teacher will present the approved credentials and make payment for the group. Meet class in the Holding Area, and proceed to the Ticket Plaza to enter the fair.
4. While the lead teacher is securing credentials, the other teachers and chaperones should bring the class to the Holding Area.
5. We encourage students to leave backpacks on the bus, as all bags are subject to search at the gate and this can slow your students' entrance to the fair.

Admission

- Teachers must register their classes prior to arrival at the fair.
- Ed Expo special ticket price: $5 admission per student (the most affordable way for students to visit the fair!)
- One chaperone for every eight students is admitted free of charge.
- Additional chaperones must purchase a $12 adult admission ticket (does not include rides).
- Contact Ed Expo Coordinator Betsy Foster at 804-994-2752 or edu@statefairva.org for special needs.
- Bus drivers are admitted free of charge.

Rides

- Standard Ride Ticket Prices: $1 per ride ticket (Rides require 2-6 tickets) or 25 ride tickets for $20. May be purchased at Ride Ticket Booths inside the fair.
- The public price for one-day Unlimited Ride Wristbands is $25. The Ed Expo price is $15 on any field trip day when purchased at the Ed Expo/ Competition Ticket Windows by Lead Teacher paying for all those in the class who are riding. Students who purchase the wristbands inside the fair will be charged the regular $25 price.
- Unlimited Ride Wristbands are good on day of purchase only and for one person only

Payment Options

- Teachers will have the option to present one payment at Ed Expo Ticket Window for admission and ride wristbands and receive both at the gate (This eliminates the need to visit Ride Ticket Booths once inside the fair).
- At the Ed Expo Gate, checks, cash or credit cards (Visa, MasterCard and Discover) are accepted.
- Cash is accepted at all Ride Ticket Booths inside the fair, and select booths also accept credit cards (Visa, MasterCard and Discover).
- Please do not mail checks in advance.

Hand Stamps

In order for anyone to re-enter the grounds after exiting, they MUST have their hands stamped. This stamp is accepted for re-entry at the Ticket Plaza only, between the hours of 10 am and 5 pm on the same day.

GETTING AROUND THE FAIR

Please read carefully!

Upon arrival, we recommend that you start your visit in the agriculture area. One way to plan your visit is to follow the numerical order of locations on the maps.

Be Prepared

Wear comfortable walking shoes, and be prepared for inclement weather.

First Aid Station

The First Aid Station is located on the north side of state Route 30, off Festival Loop, across from the entrance to the Natural Resources Area. First aid staff are always on duty.

Lost Child Center

Instruct students to find a police officer if they become separated from the class. Found children will be escorted to the Lost Child Center (See map).

Restrooms

All restrooms are clearly marked on the map. Restrooms are available near the Ticket Plaza once you enter
the fair.

Water Fountains

Water fountains are located in the Farm Bureau Center and Meadow Pavilion near the restrooms.

Hand-Washing Facilities

These are located in the midway, equine and agriculture areas. All restrooms have lavatories. For your safety, the State Fair recommends that you and your students wash your hands every time you exit an animal or midway area and before eating.

Lunch

School groups may bring lunches to the fair. However, if you and your class prefer to purchase lunch, food vendors are located throughout the grounds for your convenience.

Elementary Level Lunch

An area near the Ticket Plaza will be available for elementary students to have lunch. If you wish to store class lunches in a specific area, see Betsy Foster upon arrival at the Ed Expo entrance.

Members of the General Federation of Women's Clubs of Virginia will be assisting at the school gate. We thank these volunteers for 31 years of service to the Education Exposition and for their support in educating the youth of Virginia.

Teacher Organizational Tips

- Review plans and learning objectives with class and chaperones prior to arrival.
- Review instructions and Ed Expo route; locate First Aid Station and Lost Child Center on map.
- We encourage students to leave backpacks on the bus, as all bags are subject to search at the gate and this can slow your students' entrance to the fair.
- Have elementary children all wear the same color shirt.
- Ask students to bring a bag lunch and drink.
- Coordinate lunch activities with chaperones prior to arrival.
- Inform Ed Expo Coordinator Betsy Foster of students with special needs—804-994-2752 or edu@statefairva.org.
- Create chaperone packets with list of students in group, copy of map and supplies (adhesive bandages, pencils, tissues, etc.)
- Use the 2017 Online Resource Directory and 2017 Field Trip Guide as learning/classroom tools.
- For younger students, have a phone number for a contact person on each child's clothing or in his or her pocket (Masking tape on the inside of a shirt collar works well).
- Preschool and Elementary School Teachers: Prior to arrival, prepare the provided child ID wristbands by marking the inside of each band with the cell phone number of the person responsible for each child in your group while he or she is at the fair. Please do not write children's names anywhere on the bands! Additional wristbands will be available at check-in.

1 MEADOW PAVILION

This is your one-stop shop to learn about Virginia's agricultural commodities in an indoor environment that will be transformed into an agricultural showcase.

Virginia Farm Bureau

Ever wondered what it would be like to sit up high in a tractor or combine and plant or harvest corn from a field. This year you can with AgCab simulators! Virginia Farm Bureau is sponsoring two simulators that allow visitors to spend 2 minutes virtually driving a modern tractor and combine. The Ag Cab Lab includes an actual tractor cab and an actual combine cab that have been converted into simulators. In the simulators, fairgoers can "drive" a tractor to plant corn or "drive" a combine to harvest corn. The simulation allows children of all ages to sit in a tractor seat, move the steering wheel, operate the throttle and view the field on a computer monitor on the dash. As one "drives," computer software controls the speed of the vehicle as it traverses the field, planting, harvesting or unloading corn. This gives visitors a first-hand perspective of modern farming practices.

While waiting in line for the simulators, visitors will have a chance to play ag-related games on an iPad. And, real-life farmers will be on hand to talk about how they work to provide Virginians with safe and nutritious food.

Agriculture in the Classroom

Fairgoers also can learn about the complex world of Virginia commodities and how they touch their lives daily. They will learn ag facts like: how many peanut butter sandwiches can be made from Virginia peanuts; that a coffee mug can be made from corn; that maple syrup farms are primarily found in western areas of Virginia; and much, much more at the Virginia AITC station in the Farm Bureau booth. Students and adults will enjoy testing their knowledge by matching products to their source and exploring the regions where they are grown. End your tour stop with a picture in front of our barn back drop, and snap a picture to remind you that food begins on the farm.

SOL Science: 2.4, 3.2, 3.10, 3.11, 4.9
Social Studies: 2.7, VS.2

Objective:

The student will be able to:

- Identify Virginia products and correctly match commodities and by-products
- Identify Virginia regions and match products that are grown/raised in each region
- Identify stages of plant production and harvest
- Identify the use of complex machines and technology in food production

To learn more about AITC's resources, including how you can support AITC, visit us online at AgInTheClass.org or find us on Facebook at Virginia Agriculture in the Classroom.

Stop and smell the honey at the beekeepers' exhibit

Come see the products of a honeybee hive at the Virginia Beekeepers' exhibit.Virginia beekeepers will be on hand to talk about the importance of pollination for our food supply, demonstrate the components of the honeybee hive and show fairgoers how honey is harvested and extracted. There will be a Honeybee Observation Hive as part of the daily exhibit. Can you find the queen? They also will encourage fairgoers to "BEE A Hero!" by growing plants and trees that are beneficial to honeybees.

Virginia Peanuts

The Virginia Peanut Growers Association booth will have information on all aspects of peanuts, including the crop's history in Virginia, where exactly they grow in our state, and particularly how our farmers grow and harvest peanuts. Virginia peanuts are the largest of the four types of peanuts grown in the US. The uses for the peanuts grown in Virginia are varied, from world renowned gourmet peanuts to roasted inshells to peanut butter. The booth will have live plants on display as well as plants just dug from the field. Information will also be available showing the nutritional qualities of one of America's most popular snack foods.

Lavender Fields Herb Farm

Stop by the Lavender Fields Herb Farm booth, in the Meadow Event Pavilion to learn all about pollinators and how they are essential to a healthy garden. See pollinator life cycles and the plants that help them along the way. Bees and butterflies are always busy in the garden visiting flowers to ensure continued growth throughout the season. They also stop by our vegetable gardens to turn blooms in to food, like peppers and tomatoes. **YUM!** Be sure to pick up a fun fact flyer to take the lessons home.

SOL K.6, K.7, 1.4, 2.5, 3.7, 4.4, 4.5

Virginia Christmas Tree Growers Association

Visit the Virginia Christmas Tree Growers Association to "Experience a Real Virginia Grown Tree" and the associated benefits:

- Back-to-Basics of a real tree, family time and tradition.
- Truly 'Green', a real tree is all natural, a sustainable resource and environmentally friendly.
- Virginia Grown to insure the freshest possible tree and support local businesses
- Your Choice to buy from retail lot for convenience or choose and cut for outdoor adventure

Virginia Soybean Association

The Virginia Soybean Association invites you to come visit with us and learn how soybeans are grown and harvested in Virginia and what they are used for in our everyday lives. There will be fun and educational materials to be given away and a "Soy House" to show the many uses of soybeans all around us!

Virginia Tobacco Board

Today, tobacco continues to play a significant role in Virginia's economy. Virginia farmers raise three tobacco types; flue-cured, burley and dark-fire. Tobacco production is concentrated in 34 counties in southern Piedmont and Southwest regions. Danville, Richmond and other communities continue to have important roles in tobacco markets and tobacco product manufacture.

Other exhibits in the Meadow Pavilion will be sponsored by the following agriculture organizations:

- Virginia Department of Agriculture and Consumer Services (Virginia's Finest)
- Virginia Grain Producers Association

2 HORTICULTURE PAVILION

Visit the youth crops and vegetables competitions! Students might see vegetables that they like to eat, some that they don't and possibly some they have never seen before! Kids from 5 to 18 can enter a crop such as peanuts, cotton or field corn; enter vegetables like cucumbers, tomatoes, curly kale and potatoes; or enter fruits such as apples, pears and melons. Students can even see entries in the Mr. Potato Head Contest, which features creatively decorated potatoes! This is a great way for students to experience agriculture in Virginia. *Be sure to check on-line for the daily demonstration schedule full of fun educational topics.*

Giant pumpkins and Giant Watermelons

Come see just how big the biggest pumpkin and watermelon are at the 2017 State Fair of Virginia. Both can be found in the Horticulture Pavilion. Growing really large pumpkins and watermelons requires the right seed, about 2,500 square feet and shade from the sun. The fair's 2015 record-setting pumpkin weighed 1,340.7 pounds!

SOL K.7, 1.4, 4.4, 4.9

Hanover-Caroline Soil & Water

Hanover-Caroline Soil and Water Conservation District presents a model of a three-zone riparian buffer. A riparian area is the land adjacent to a body of water, such as a stream, river, marsh or shoreline, that forms the transition between the aquatic and terrestrial environments. A buffer is the vegetation, including herbaceous and woody plants. A buffer filters pollution, sustains aquatic habitat, stabilizes floodplains, transforms and stores nutrients, provides shade and provides wildlife habitat.

SOL Related Science SOL's:
K.5b, c; K.6a, b; K.7a-d; K.9c; K.10a, b
1.3a, b; 1.4a; 1.5a; 1.8a, b;
2.1l; 2.5a-c; 2.7a, b; 2.8a-d 3.1l; 3.6a-d; 3.10a-d
4.4a; 4.5b, d,f; 4.9a-d
5.7f, g
6.5a, c,f; 6.7a-c-f; 6.9a-d;
LS.6c; LS.9b; LS.11b, d,e;
ES.8a, d,e,f;
BIO.8d

Virginia Department of Forestry

Celebrate the 100th anniversary of the Virginia Department of Forestry nurseries. Learn how tree seedlings are produced, see modern and historic nursery photos and tools, and try your hand at identifying acorns. Find out about efforts to bring longleaf pine back to southeastern Virginia, and take home a longleaf pine cone.

Master Gardeners

Be sure to check out the Master Gardener booth in the Horticulture Pavilion and see a demo of how you can prevent runoff from your property. Rain water runoff can contribute to damage for our fragile waterway systems. Learn more about the benefits of landscaping with native plants. In addition you can get answers to your all of your gardening questions.

3 STUDENT GARDEN COMPETITION

Come see the gardens that high school students from across the state have installed. The theme for this year's Student Garden Competition is "Victory Gardens." Horticulture students design and install these gardens, which are always a highlight of the Ed Expo. Students are competing for premiums, scholarships and bragging rights.

4 VIRGINIA FISH WORLD

"AG Sustainability, Every Day, Every Way" Virginia Cooperative Extension at Virginia State University will exhibit Fish World, an interactive educational display of Virginia aquaculture that includes live fish and shrimp. Daily educational programs by VSU faculty and staff will showcase the university's wide variety of educational programs.

See presentations daily at 10:30 am and 1:30 and 3:30 pm at three locations.

- Aquaculture–Fish World Tent
- Mobile Lab –Inside the VSU Main Foot Print
- College of Agriculture Exhibit-VSU Main Tent

SOL Bio. 3

BIO.3 – The student will investigate and understand biochemical principles essential for life.

Q: What animals do farmers grow in Virginia's freshwater environment?

A: Channel catfish, freshwater shrimp, hybrid striped bass, rainbow trout and tilapia

Q: What is the most important water quality need for aquacultured animals?

A: Dissolved oxygen

Q: What is farming the waters called?

A: Aquaculture

Q: What is the combination of hydroponics and aquaculture called?

A: Aquaponics

5 PIGEON AND DOVE PAVILION

There are over 300 different breeds of pigeons and doves with many variations of markings and colors within them. Besides being powerful flyers, some of the many abilities of pigeons include homing instincts, ground and air acrobatics, cooing that sounds like trumpets, and some that can even inflate their crop like a frog. A sight to behold, many pigeons have extravagant body shapes, which range from the small, cardinal-sized Figurita to the largest, nearly chicken-sized Giant Runt; its name is a story in and of itself. From the bold, upright "peacock tail" of Fantails to the elaborate, "hair curler" feathers of a Frillback, a pigeon's feathers are always the talk of the tent. Come and experience a husbandry that has been around for millennia and has played a critical part in history. We look forward to seeing you there and answering any questions!

6 SOUTHLAND DAIRY FARMERS CENTER

This all inclusive dairy exhibit will showcase everything from breeds of dairy cattle to where our milk comes from!

Birthing Center – See newborn calves with their mothers. Usually 10 calves are born here during the fair. Unfortunately, we can't guarantee delivery times, but there is always an educational video of the actual event. Holstein dairy cattle usually are black and white. Adult Holsteins produce more milk than any other breed, about 8 gallons a day! Dairy cattle breeds vary greatly from the more muscular cattle that are raised for beef. Only female dairy catle are called cows. Male cattle are called bulls, and babies are called calves. A newborn calf can weigh 100 pounds and walk within an hour of its birth.

Cow Milking – Try your hand at 10:30 a.m., 1:30 and 7 p.m. daily.

SouthLand Dairy Parlor – Learn about the nutrients that make up a glass of milk with the SouthLand Dairy Farmers. They will give four presentations a day featuring cows in their traveling milking parlor. Daily presentation times: 11:00 a.m., 2:00 p.m., 4:30 p.m. and 7:30 p.m.

7 YOUNG MACDONALD'S FARM

This exciting experience includes many of the animals found on a typical Virginia farm. Your class will see:

Sheep – Not all sheep have wool. Stop in and see the hair sheep and other breeds.

Baby Ducks on the famous duck slide

Geese, Ducks, Turkeys, Guineas and Chickens

Breeds of Beef and Dairy Cattle – See what makes them different.

Rabbits – All rabbits are not the same! Look for breeds like Lionhead, Jersey Wooly and Angora.

Alpacas – Virginia Alpaca Breeders will be available all day with animals your class can pet and feed. This is an opportunity to touch alpaca fleeces and learn about the unique qualities of this fiber-bearing animal. Breeders will be happy to share their knowledge!

Goats – Goats are adaptable animals. They feed on forage that other animals will not eat and can live in steep, rocky places. Goats are raised for their milk, fiber and meat. Goat's milk and cheese are easily digested. Fleece from the silky hair of the cashmere goat is used to make yarn and fabric. Goats have no top teeth; they eat by tearing grass with their bottom teeth and tough upper gums. A female goat is called a nanny, a male goat is called a buck and a baby goat is called a kid. Kids often are born in pairs.

Baby chicks hatching daily – An incubator provides heat similar to that of a broodie hen. It takes 21 days for a baby chicken to develop inside an egg. During that time, the chick uses the egg yolk for food. It is very important that chicks struggle to hatch out of their eggs, because it helps them develop physically.

Incubation/hatching of different poultry species:
Chickens – 21 days
Turkeys – 28 days
Ducks – 28 days
Geese – 30 days
Muscovy ducks – 35 days

Sow / Litter – Visit the sow with her litter of baby pigs. A sow's gestation is 114 days. The babies are up and walking within minutes of being born and are weaned and ready to be on their own at 6 weeks. A sow normally will have eight to 12 pigs per litter and can have two litters per year. In today's production system pigs can weigh 250 pounds at 6 months of age or less and be ready for market. It takes about 4 pounds of feed for 1 pound of weight gain, and each pig will require about a half-ton of feed to reach market weight.

Horses, Horses, Horses – The Virginia Horse Industry Board will be joining the exhibit this year and each day they will be featuring a different farm & breed of horse. Learn the differences and uses for some of the 350 + breeds of horses and ponies that exist. Did you know that horses have four gaits (ways of moving around) the walk, the trot, the canter and the gallop?

Cash Crops of Virginia – Adjacent to Young MacDonald's, students can visit the Cash Crops of Virginia to examine such crops as corn, cotton, peanuts, and soybeans while the plants are still growing. Did you realize peanuts grow underground and not on trees? They are not even nuts but are logons! Learn about the economic impact of cash crops in Virginia.

Urban Agriculture – Beside the Cash Crops of Virginia, students can experience Victory gardens which were introduced during World War I and again during World War II. Home gardens on vacant land, in containers, on roof tops, and on school grounds sprang up across the country, much like urban gardens are today. Learn more about what was grown and how it was preserved for use when the seasons would not allow vegetables to grow. How many of our vegetables can you name and have you eaten?

8 SECRETARIAT'S PADDOCK

Students who visit the State Fair of Virginia at The Meadow are truly walking in the hoofprints of history. And now The Meadow, as the birthplace of Secretariat, is a Virginia Historic Landmark and listed on the National Register of Historic Places.

Fairgoers can touch a living link to the great Secretariat in the paddock by his historic barns. His great-great granddaughter, Groundshaker, who now lives here, will be on display. She is a six-year-old retired Thoroughbred racehorse, given to the tourism progra by Penny Chenery, Secretariat's owner. Groundshaker is very tall at 17 hands or 68 inches high at her withers (shoulders) and she is bay in color. Her little companion, Mia, a miniature horse, will also be greeting visitors during the Fair.

- Only 12 horses have won the Triple Crown since 1919. The latest one is American Pharoah, who became the first horse in 37 years to win the Triple Crown on June 6, 2015. He is a great-great-great grandson of Secretariat.
- ESPN named Secretariat as one of the top 50 athletes of the 20th century. He was the only four-legged one on the list.

- In 1972, the year before Secretariat won the Triple Crown, Riva Ridge of Meadow Stable won the Derby and the Belmont. No other racing stable has ever won five out of six Triple Crown races back to back.
- At The Meadow, you can see the foaling shed where Secretariat was born, as well as the stall in the yearling barn and the stall in the training barn where he and Riva stayed as young colts.
- You can also see the stride marker posts that show Secretariat's enormous 25-foot racing stride.
- The Meadow is where Secretariat and Riva first had a saddle and a rider on their backs and where they learned to gallop around a racetrack.
- Today The Meadow history stays alive with year-round narrated tours of Secretariat's birthplace, available by reservation. See www.meadoweventpark.com/hoofprints-of-history-tour.
- The Meadow was not always a Thoroughbred horse farm. It was founded in 1805 by Dr. Charles Morris and was a working plantation of 4,000 acres for over 100 years. In 1936, Christopher Chenery, a cousin of the Morris family, purchased The Meadow and transformed it into a famous racing stable. His daughter Penny Chenery took over the farm when he became ill and took her father's dream to the utmost heights of racing glory with Secretariat and Riva Ridge.

Leeanne Meadows Ladin, Secretariat tour manager and co-author "Secretariat's Meadow – The Land, the Family, The Legend"

9 HERITAGE VILLAGE

Walk back in time, and explore the changes in technology and lifestyles that have taken place in America.

Machinery and engines – Mechanical power and industrialization transformed agriculture, domestic culture and transportation with great speed. See the technologies that launched Americans into the 20th century, collectors' antique tractors and early gas engines.

Blacksmith – See period farm tools being made.

Flour/Corn meal – See corn kernels turned into cornmeal, and see wheat turned into flour. Ask what other grains are used for human consumption, as opposed to livestock feeds.

Shingle mill – Watch cedar logs being turned into shingles for the roofs of buildings.

Violin Maker – Stop by and witness a true craftsman as he makes violins by hand.

Salt Maker – Onsite on Monday - Wednesday. Come experience salt making demos with Jim Boardwine from Saltville, Virginia. Saltville, located in the mountains of Southwest Virginia has been producing salt for hundreds of years. Most folks today think of modern salt mines located in the north and west of the country. These were not possible in Virginia so locals would find a saltlick. A saltlick is a place where salt naturally occurs. Its mixed in the dirt, undetectable by the eye, but wild animals could smell it. They would dig and paw at that place and lick the dirt to get the salt. The old hunters would find these places and dig a hole, the ground water would soak up the salt and fill the hole. They would then harvest the salty water and boil it in cast iron kettles. Daniel Boone used this process in Kentucky for the settlers.

Visitors will have an opportunity to experience this process first hand through period demonstrations using an old kettle like the pioneers used back in the 1850's.

Rotating Exhibits:

Friday, September 29:

Spinner and weaver, Hope Yankey, will be demonstrating how she turns the wool that she harvests from her sheep flock into yarn.

Monday, October 2 & Tuesday, October 3:
A local basket maker will be demonstrating the art of creating baskets out of natural materials such as tree bark.

Tuesday, October 3 - Thursday, October 5:
See how original horse power is used to split firewood. Ricky Mcleod will be demonstrating how he uses his mule driven treadmill to power a log splitter.

Thursday, October 5 & Friday, October 6:
The Biggers will be demonstrating the Art of Glass blowing and metal jewelry making.

SOLs: VS.1b, 1e, 1g, 7b, USI. 1b, VUS.1a, preferred for grades 4, 5, 7 and 11

10 FARM BUREAU CENTER AND ARTS & CRAFTS EXHIBITION

The Arts and Crafts Department has a lot going on and would love to have you visit while you are here to enjoy and learn at the State Fair of Virginia.

The Arts and Crafts Department of the State Fair of Virginia would like to invite you to step back in time and discover World War 2. Visit our displays of WW2 artifacts and photographs. Learn about the USO and how they entertained our troops here in the United States and abroad. Help the Caroline County Historical Society identify soldiers from photographs of these men before they went off to serve their country.

Help our local Historical Societies solve history mysteries by identifying men, women, children and places in photographs from long ago.

Come see who won the coveted blue ribbons! Discover which of your fellow students were talented enough to win scholarships to help them with their college endeavors. Find out if you won a ribbon in competition.

Learn how to make twined rag rugs, repair a chair that may have held a Civil War soldier over 150 years ago, make lace as they did in Colonial Williamsburg during the Revolutionary War, or spin fiber into yarn and weave beautiful cloth You might even want to learn how to square dance.

U.S. Army Corps of Engineers

The U.S. Army Corps of Engineers is the world's largest public engineering organization and serves as the federal government's engineering and design lead for water resources issues throughout the entire U.S, and is the lead construction agency for the U.S Army and Air Force. The Corps is also responsible for regulating impacts to wetlands under sections of the Clean Water Act and the River and Harbors Act. The agency offers many recreational opportunities along many of the dams and reservoirs it manages.

The Norfolk District is responsible for water resources projects in the commonwealth of Virginia in six major watersheds and regulates the impacts to wetlands throughout the entire state.

The Corps booth will include hands-on learning on water quality, offer water safety handouts including stickers, bags, literature and other items. An interactive water management game will also be available for students to learn how affecting water outflows from reservoirs impacts activities downstream.

Environmental scientists, engineers and other professions will be on hand at the display to talk about what they do answer questions and encourage Science, Technology, Engineering and Math (STEM) learning for students as well as discuss outreach opportunities with teachers.

11 NATURAL RESOURCES AREA

Department of Conservation and Recreation

Visit and learn about DCR's division of State Parks, Natural Heritage, Planning and Recreation, Dam Safety and Soil & Water. Activities will include gold panning and a virtual bicycle tour of state parks.

Special Programing:

Friday, Sept. 29: Reptiles Alive
Turtles and snakes have long fascinated humans and shaped our culture through storytelling, folklore and medical breakthroughs. Though some snakes are deadly, they could save your life.

Monday, Oct. 2: Birds of a Feather Stick Together

Get firsthand experience with the art and science of birding and check out some of the birds that call the fairgrounds home.

Tuesday, Oct. 3: Bay Critters

Straight from the mouth of the Chesapeake to the fair meet some of the creatures that call the Virginia Beach Area home. Explore some of the signs of life that wash up along our beaches.

Wednesday, Oct. 4: Thomas Nelson Conrad-Gentleman Spy!

007 of the South, Conrad was one of the most ambitious spies during the Civil War.

Thursday Oct 5: Aww Shucks Oysters

Oysters were once the major filters of the bay, helping create the crystal clear waters that Capt. John Smith wrote about. Check out how oysters are being managed and brought back to the bay

Friday Oct 6: Relics of an Ancient Time

Fossils help us discover what life was like in the ancient Chesapeake Bay.

Friday Oct 6: National Symbol Almost Gone

The Bald Eagle, our national symbol nearly disappeared from much of our country. Meet with a ranger and find out how the eagle has recovered. No live birds.

Department of Historic Resources

Believed to be the oldest such endeavor like it in the nation, Virginia's historical highway marker program turned 90 this year, denoting 1927 as the year the first historical highway markers were erected along a Virginia highway. From that modest beginning, today's program now consists of more than 2,600 markers, with many dating back to the earliest years of the program still standing along Virginia roads. DHR's State Fair exhibit this year will highlight the evolution of the program during these 90 years. While the iconic shape of the signs has remained largely consistent since the markers first appeared, the range of topics considered of interest for the signs has broadened to cover all aspects of Virginia's rich and diverse history. The exhibit will also discuss an effort now underway to replace damaged and missing markers.

Virginia Association of Soil & Water Conservation Districts

The Virginia Association of Soil & Water Conservation Districts (VASWCD) exhibit will offer information to all citizens on ways to better conserve Virginia's precious natural resources, focusing on soil health, water quality and storm water. Students can learn what watershed they live in, as well as the impact of individual actions have on their local watershed and local watersheds and the health of the Chsapeake Bay. Visitors will have the opportunity to engage in hands-on-activities and displays to discover the importance of protecting our waterways, including projects you can participate in from your own school yard or home. Visitors will also be able to test their knowledge on aquatics, forestry, soils and wildlife.

SOL Correlations
K.5, K.9, K.10, K11, 1.8, 2.7, 3.6, 3.7, 3.9, 3.10, 4.9,5.7, 6.7, 6.9, E.S 8, E.S 10

Virginia Department of Forestry

Virginia's forests are under attack by non-native, invasive plants, diseases, and insects. Learn about these threats to our forests and ways you can help the Virginia Department of Forestry fight the invasion. Kids can try several make-and-take activities and create nature art.

12 DOMINION CONSERVATION CLASSROOM

Department of Game and Inland Fisheries
Virginia Wildlife from the Mountains to the Sea

Visit Virginia's Department of Game and Inland Fisheries and Marine Resources Commission to learn about the wildlife that thrives in each of the Commonwealth's Geographic Regions. Wildlife Scientists, Marine Patrol and Conservation Police Officers will be on hand to answer questions about careers associated with wildlife conservation. Horseshoe crabs and snakes will be available to touch. Live salamanders, freshwater and marine species of fish will highlight the vast variety of species that can be found across the state.

Standards of Learning concepts such as adaptations, interdependence, sustainability and energy transfer will be highlighted.

Meet Virginia Raptors – Join the Department of Game and Inland Fisheries and The Wildlife Center of Virginia Friday, September 29th – Tuesday, October 3rd to learn more about Virginia's birds of prey. Different species from The Wildlife Center will be featured each day including live Screech and Barred Owls, a Red-tailed Hawk, Peregrine Falcon, Black Vulture and Bald Eagle. Show times are 11 a,m, 1 p.m, 3 p.m. and 5 p.m. at the Dominion Classroom.

SOL's covered will include all living systems, life processes and life science standards from k-7 and most biology standards. The exhibit will also touch on the environmental standards in HPE and the skills will touch HPE standards K-12.

13 AGRICULTURE CAREER EXHIBIT

Careers in Agriculture

Many people equate agricultural careers with farmers and ranchers. However, there are hundreds of other careers that support those who are on the farms and ranches producing the food, fiber, fuel and other products; marketing, processing, sales, finance, and providing services and supplies to producers.

Visit the Careers in Agriculture Exhibit and see how it can (1) assist youth in learning what careers are available in agriculture, forestry, and agribusiness (2) inform people about the characteristics of each career (3) and empower young people to prepare for a career of their choice.

14 EQUINE & LIVESTOCK COMPLEX

Equine events held during the fair are sure to entertain students while they learn about this vital segment of Virginia agriculture. Check the Daily Thrill Guide for event times.

Highlights at press time included:

Friday, September 29
- Cowboy Mounted Shooting
- Palomino/Open Horse Show

Monday, October 2
- Draft Horse & Mule Show

Tuesday, October 3
- Paso Fino Demos
- Sheep Dog Demos

Wednesday, October 4
- Mini Horses

Thursday, October 5
- Mini Horses
- Pro Rodeo
- Blacksmith Competition

Friday, October 6
- High School Rodeo
- 4H Horse Show
- Morgan horses
- Mini Horses
- Pro Rodeo
- Blacksmith Competition

14 FIRST BANK & TRUST COMPANY PAVILION AND LIVESTOCK PAVILIONS II AND III

Open and Youth Livestock Shows

Visit the different livestock pavilions on your field trip. The types of animals being shown rotate throughout the 10 days of the fair. Find out which shows will occur while you are here:

Friday, September 29
- Open & Youth Dairy Cattle – First Bank & Trust Pavilion
- Open & Youth Dairy Goats – Livestock Pavilion III
- Boer Goats – Livestock Pavilion III

Monday, October 2
- Open Beef Cattle – First Bank & Trust Pavilion

Tuesday, October 3
- Open Beef Cattle – First Bank & Trust Pavilion

Wednesday, October 4
- Open Beef Cattle – First Bank & Trust Pavilion

Thursday, October 28
- Open Beef Cattle – First Bank & Trust Pavilion

Thursday, October 5
- Youth Beef Cattle - First Bank & Trust Pavilion
- Youth Sheep - Livestock Pavilion III
- Youth Meat Goats - Livestock Pavilion III
- Youth Hogs - Livestock Pavilion II

Friday, October 6
- Youth Beef Cattle - First Bank & Trust Pavilion
- Youth Sheep - Livestock Pavilion III
- Youth Meat Goats - Livestock Pavilion III
- Youth Hogs - Livestock Pavilion II

Additional Educational Programming

Agri – Puppets
Agri-Puppets is fun family puppet show that teaches the importance of farming, animals and agriculture.

Join the puppet cast with sing-alongs, identifying animals, popping bubbles, answering questions and more.

Agri-Puppets is the name, fun is our game!

Daily show time: 12:00 p.m.

Virginia Loggers Association

The Virginia Loggers Association (VLA) is a private, non-profit 501-C (6) organization, dedicated to the education, training, and promotion of Virginia's Forest Products Industry. We serve logging and supporting businesses making up Virginia's third largest industry. Members carry out logging in the safest and most competitive manner and comply with best management practices (BMPs) to ensure our forests are sustainable and healthy.

Objectives:
- The Voice of Virginia loggers
- Focus on workers safety
- Improve and expand quality logging BMPs
- Provide, promote and facilitate educational training
- Network and information sharing with members
- Support Log-a-load for Kids program to raise funds for Children's Miracle Network Hospitals
- Serve and represent members on a local, regional, state, and federal level
- Promote the benefits of our timber harvesting industry and a positive image

Virginia Logging Association Members harvest 65% of Virginia's annual harvested forest acreage. Loggers use best management practices to meet the landowners' objectives, add value to the forest products industry and leave forest sites in great healthy condition for our future forests! By voluntarily complying with the best management practices, Virginia loggers ensure that our state's water quality remains free of sediment from its activities. The result is clean water for all citizens, wildlife habit, and healthy future forests.

MARKETING/DECA CAREER DAY

Thursday, October 5 – Ed Expo Lunch Area
A unique marketing field experience covering basic marketing principles with an emphasis and concentration on promotions,target marketing, sales and customer service.

The field experience, which compliments numerous SOL competencies, will allow students to examine basic marketing principles at the commonwealth's largest outdoor marketing venue. There areover 40 general marketing course competencies covered and over 15 direct SOL correlations aligned through this field experience. Some examples are listed below.

1. Explain the nature of economics, economic activities, and economic resources.
2. Explain the role of profit in private enterprise.
3. Identify the role of product/service planning in marketing.
4. Identify types of product mix strategies.
5. Describe market identification and segmentation.
6. Explain the difference between pricing a good and a service.
7. Explain key factors in determining selling price.
8. Explain the difference between pricing a good and a service.
9. Explain the concept of promotional mix.
10. Explain the importance of customer service.

This outline provides information to help teachers, DECA advisers and students become

aware of marketing considerations that are not an essential component of the fair's planning, development and success.

Role play and promotion project competition held in the Ed. Expo Lunch Area. Advisors are required to pre-register at vadeca.org prior to arrival. This is in addition to registering your school group for the Ed. Expo at StateFairVa.org. Competition will begin at 10:15 am and run continuously throughout the day. Medals will be awarded at 2 pm in the Ed. Expo lunch area.

VIRGINIA FCCLA DAY

Wednesday, October 4 – Ed Expo Lunch Area Sponsored by the Virginia Association of Family, Career and Community Leaders of America

See the Virginia Standards of Learning come to life through educational experiences for middle and secondary students in family and consumer sciences courses.

Once chapters enter the fairgrounds, students head out on an SOL Scavenger Hunt in which they explore Virginia's largest outdoor classroom, matching educational opportunities throughout the fairgrounds with related Standards of Learning,including those encompassing family and career issues.

Four contests for FCCLA members are also available that promote "Brand FCCLA"– FCCLA Wear (clothing), FCCLA

Wear (accessories) and FCCLA Poster Design. Check with your chapter adviser for information on how to participate.

Schedule:

10 a.m. to Noon: Drop off entries at Ed Expo Lunch Area

Noon to 2 p.m.: Judging
2 to 3:00 p.m.: Entries available to take home

HOSA DAY AT THE STATE FAIR!

Friday, October 6

HOSA: Future Health Professionals is a student organization dedicated to promoting Health and Medical Sciences knowledge and skills, as well as, valuable leadership training for future healthcare careers.

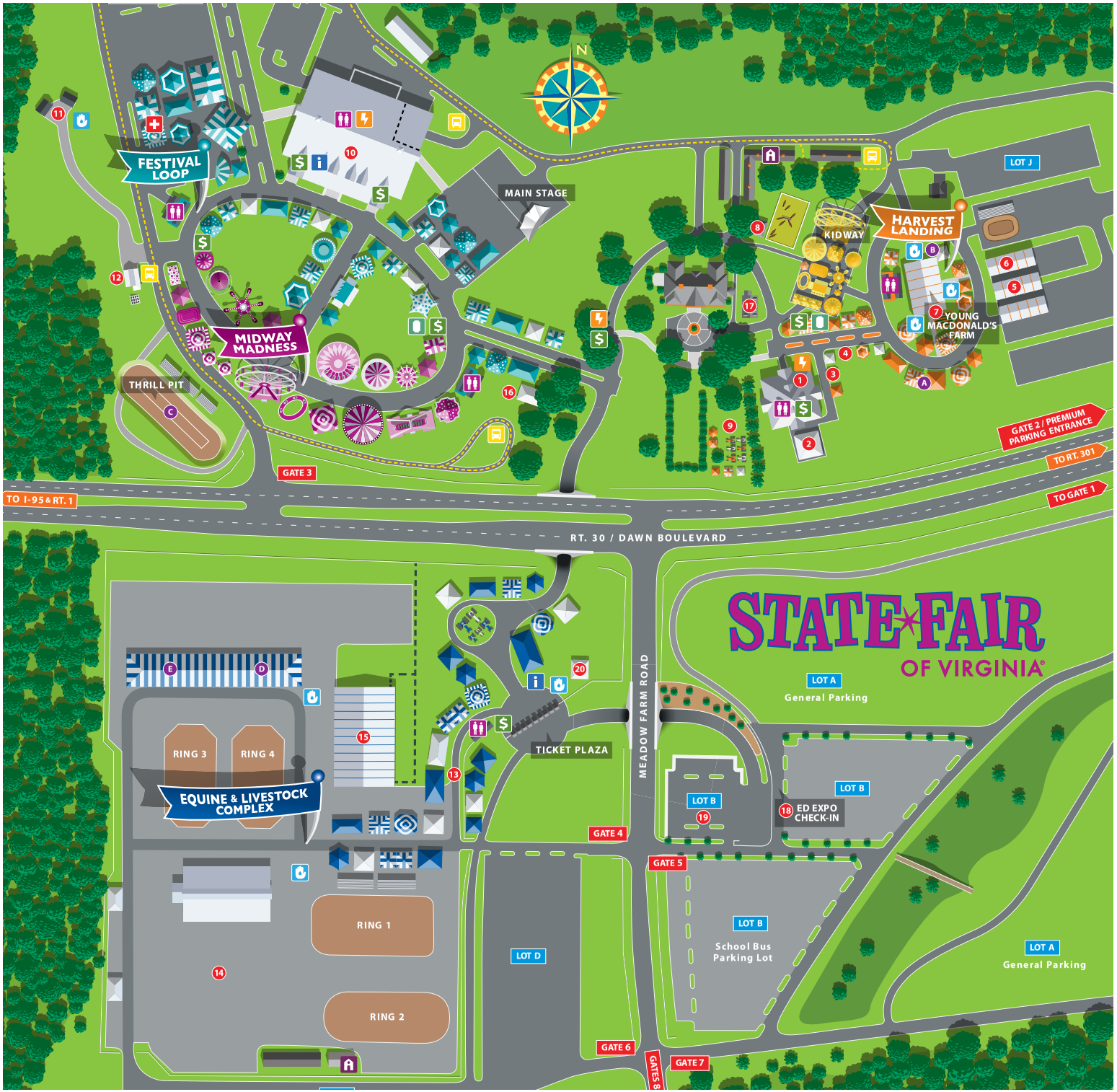
VA HOSA Day at the State Fair allows students to connect Health and Medical Sciences knowledge with the healthy lifestyle exhibits at the fair. Students can explore various areas of the fair that promote many facets of healthy living, such as nutrition, the environment, and health related topics. In addition, HOSA chapters will be able to enter project competitions which will be held at the Ed Expo Lunch Area. An awards ceremony will follow the competition judging. To learn more about this unique experience, please visit the VA HOSA website: www.vahosa.org.

Schedule:

10 a.m. to 11:30 a.m.
Registration for competitions.
Registration for competitions.
Pick up Scavenger Hunt sheets

11:30 a.m. – 1:00 p.m.
Judging competition entries. Judging area closed.

1:00 p.m. – Award Presentation



Map Key

Educational Exposition Stops

1 Meadow Pavilion
2 Horticulture Pavilion
3 Student Garden Competition
4 Fish World by Virginia State University
5 Pigeon & Dove Pavilion
6 SouthLand Dairy Farmers Center
7 Young MacDonald's Farm
8 Secretariat's Paddock
9 Heritage Village
10 Farm Bureau Center
- Arts & Crafts Exhibition

11 Natural Resources Area
12 Dominion Conservation Classroom
13 Agriculture Career Exhibit
14 Equine & Livestock Complex
15 First Bank & Trust Co. Pavilion

Important Locations

16 Lost & Found / Lost Child Center
17 Public Safety Center
18 Educational Expo Check-in
19 Educational Expo Holding Area
20 Educational Expo Lunch Area

Other Educational Highlights

A Agripuppets
B Gardens & Crops
C Thrill Pit (9/29 Va. Loggers Assoc. Demos)
D Livestock Pavilion II
E Livestock Pavilion III

ATM
First Aid
Handwashing Station
Historic Site - Secretariat History
Restrooms
Ride Ticket Booths
Shuttle Stop
Wheelchair Charging Stations
Info Station

FOR YOUR SAFETY:

The State Fair of Virginia recommends you wash your hands every time you exit an animal or midway area - and before you eat.

we're game for education

Dear Virginia Teachers,

Once again, the Virginia Lottery is proud to sponsor "Virginia's Largest Outdoor Classroom" in the State Fair Educational Exposition. At the Virginia Lottery, "we're game for education" and we hope that all Virginians will enjoy the unique experience of exploring history, agriculture, natural resources, technology and art, all through these first-hand, interactive exhibits at the State Fair.

The Virginia Lottery has a long history of supporting public education. Since 1999, we've contributed more than $8 billion to Virginia's K-12 public schools. The Virginia Department of Education uses lottery revenues to support programs such as early reading intervention, teacher mentoring and class size reduction. And, there is good news for both this past year and next: a portion of what comes back to your localities is now considered discretionary funding, which means there will be choices on how those proceeds are best spent for YOUR school districts. In FY17, that number for discretionary funding was $36 million, but now in FY18, that number goes up to $191 million.

We support education in other ways, too. In partnership with the Virginia PTA and Supply Room Companies, throughout the past ten years we've honored 80 educators and awarded more than $250,000 in cash and classroom supplies through our Super Teacher Awards program. Check out all the surprise videos at www.vasuperteacher.com. We look forward to updating this program and launching the Super School Awards in the fall of 2018.

For the past two springs, in conjunction with National Teacher Appreciation Week and also in partnership with the Virginia PTA, we've helped thank more than 60,000 teachers with both hard-copy and digital thank-you notes through our Thank a Teacher campaign! We also awarded two wonderful Virginia-themed vacations thanks to a partnership with Virginia Tourism Corporation. We look forward to continuing this campaign beginning again in April 2018.

The Virginia Lottery is honored to contribute to education and the dedicated teachers who are passionate about helping to shape the lives of our children.

I hope you'll be a part of the fun and games offered at the State Fair of Virginia!

Paula I. Otto

Paula Otto