

Indiana 4-H'ers experience

Wind beneath their wings

By the Writing Warriors

The Writing Warriors visited the Purdue University Airport to report on the Science of Flight workshop during 2018 4-H Academy @ Purdue. The Science of Flight program is directed by Andrew Running, a certified flight instructor at Purdue.

Running, originally from Long Beach, California, has had an interest in aviation since he was 2 years old. Fun fact—his first book is titled *Fighter Jets of the World*.

Running's greatest passion for flying is simply getting up and flying, he said. He loves being in control in the air and looking down at the small people below!

Overseeing the aviation program is fun for Running because he loves to share his passion and excitement for aviation with youth who are interested in flying. He has been at Purdue since 2010 and came back after he graduated in 2015 as a full-time pilot.

"I always tell first-time flyers to give it a shot, because the worst-case scenario is disliking the ride up, but they can always come back down and say they gave it a try."

Running wants newcomers to experience the same zest he does in the air. He knows that pilots have completed a rigorous training process to ensure knowledge and safety standards before certification as licensed pilots.



Staff photo

Christopher Shively, Whitley County, tries his hand at flying a Cirrus SR20 aircraft during 4-H Academy's Science of Flight Workshop. Flight demonstrations were directed and coordinated by Dr. Ronda Cassens, chief flight instructor.

Julian Wright from Hamilton County has had an interest in aviation since his middle school years. When he found out about the workshop, he immediately jumped on board with the opportunity and asked his mom to sign him up.

Wright expressed excitement in learning how to control the airplane

and says that this workshop is a great hands-on way to learn about flying.

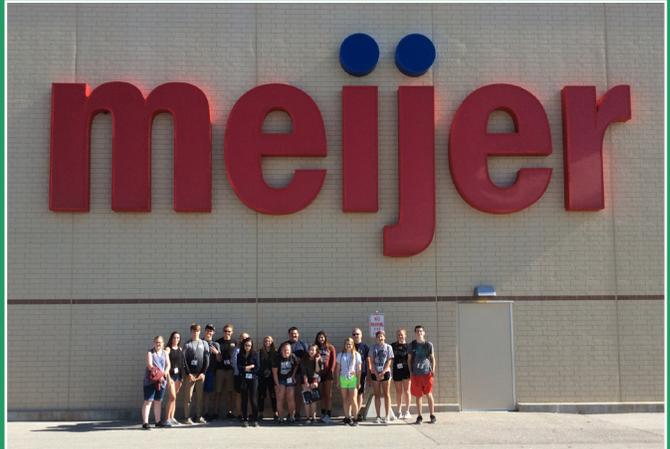
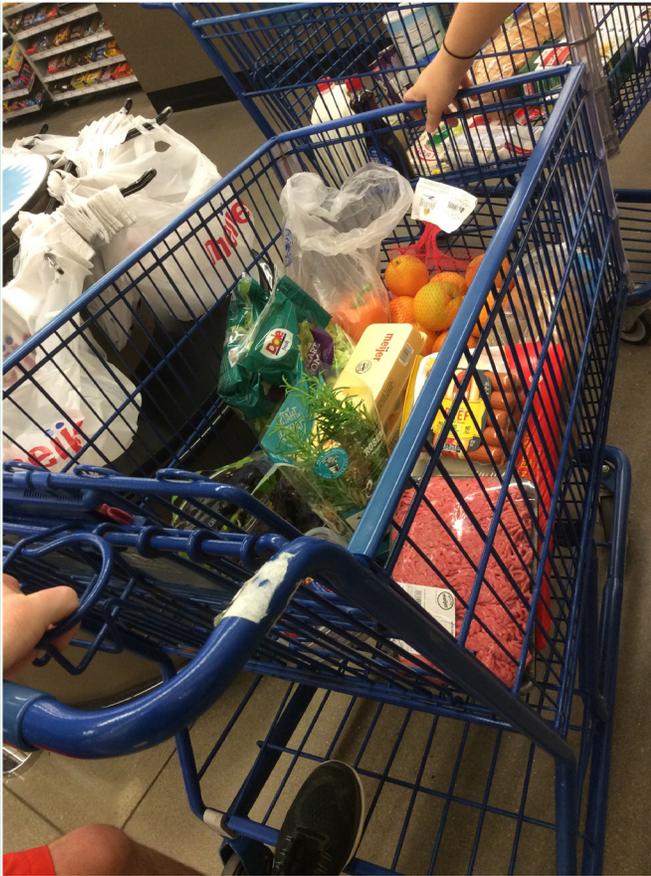
Trent Barnhart from Marshall County said his dad was a pilot and he plans to follow in his footsteps. Barnhart was ecstatic to go up in

See Wings, page 4

IMPROVED MONEY MANAGEMENT MAKES FOR ...

SMARTER DOLLAR DECISIONS

By the Fourth Estate



Staff photos

△ 4-H'ers participating in Academy's Show Me the Money Workshop learned money management skills while shopping at a local supermarket.

◁ Shopping wisely with 4-H'ers Lilly Clark, Taylor Clark, Dylan Smitsono and Paul Toth-Perez.

Money management is an important part of life. Through proper money management, people can take care of themselves and others in a financially responsible way.

Seventeen 4-H'ers participating in 4-H Academy's Show Me the Money workshop learned about money management by shopping at a West Lafayette Meijer store. Participants were instructed to shop for a week's worth of groceries for their designated fictional families.

Delegates shopped for different types of food to help support their assigned families. They were instructed to purchase nutrient-based foods on a cost-efficient budget in order to keep their families well-fed.

The delegates also had personal goals they hoped to accomplish from taking part in this activity. They hoped to learn from their experience and apply their knowledge to future circumstances surrounding their lives.

"This activity helps us in real life in different ways," said 4-H'er Jessica Bradford of Warrick County. "It teaches us how to shop responsibly and that we can buy healthy foods at a cheaper cost."

Show Me the Money participants also learned about the cost of real-world provisions and securities. The group not only discussed shopping, but also purchasing different kinds of insurance and buying real estate.

4-H'ers learned monetary concepts

through specific activities. The delegates involved were very interested in the idea of smarter spending and cost efficiency.

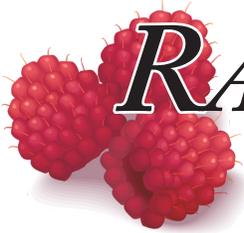
"We get to go thrifting and I'm really excited about that," said Lilly Clark of Warrick County. "It should be a lot of fun."

Show Me the Money helped 4-H'ers to learn about efficient spending and saving. As a result of the program, they are better prepared for real-life situations and future challenges. It was a lot of fun but also offered a lot to learn.

"I have problems with money management," said Madison Barlow of Boone County. Show Me the Money showed me how to spend wisely."

Artwork: <http://www.publicdomainfiles.com>

What on earth is a — *RASPBERRY PI*?



By Daily Trouble

Fifteen 4-H members took on the 2018 4-H Academy's cutting-edge computer technology class, "STEM it UP." First, the group learned how computers are put together. They built a small machine called a Raspberry Pi.

The Raspberry Pi is a compact computer that can be used to learn about coding and electronics. Instructor Zach Weidner showed 4-H'ers how to assemble and wire the Raspberry Pi.

Next, the group moved on to coding, which most kids said was definitely the toughest and most mentally demanding part of the session!

Our News Team worked the room and asked 4-H'ers questions about what they were learning, including Alejandro Sachinas from Jackson County.

When asked why he was interested in coding, Sachinas said, "Being able to create something that nobody has seen before."

He went on to say he wants to someday develop something along the lines of a Mac computer. He said he had toyed with video game software before participating in this session.

Playing video games over and over can lead to boredom. But imagine using your curiosity to dream up and design new video games! In addition, some people have described coding as one of the most important skills of the future.

4-H'ers in this session expressed different interests regarding jobs that require computers and coding.

"I'm interested in graphic design," said Madelyn Copperwaite from Harrison County. "It's important for me to know how computers work for art."

It was clear that anyone interested in a job requiring a computer could bene-

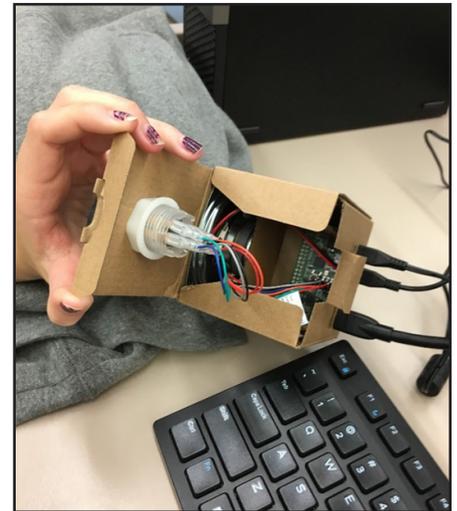
fit from this educational session.

Many 4-H'ers we spoke to said this was their first time coding and working closely with computers as they did in this session.

4-H'ers like Alice Fisher from Porter County and Joshua O'Brian from Daviess County were among those who experienced coding for the first time. O'Brian said he was always interested in coding and computers and was having fun learning through this program.

One of the things 4-H'ers learned was how to code a guessing game. In this exercise, they would enter numbers and the program would instruct them to guess either higher or lower until they either guessed the number or offered 10 guesses.

4-H'ers also learned how to use a random-number simulator in which they set a range of numbers, such as 1 to 6, for the PYTHON program to select from. PYTHON is one of the

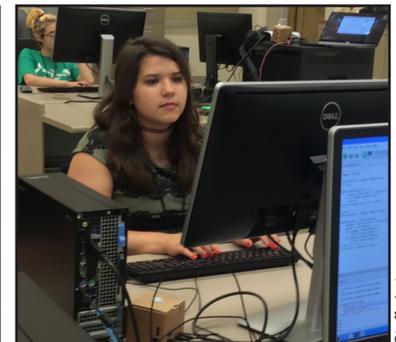
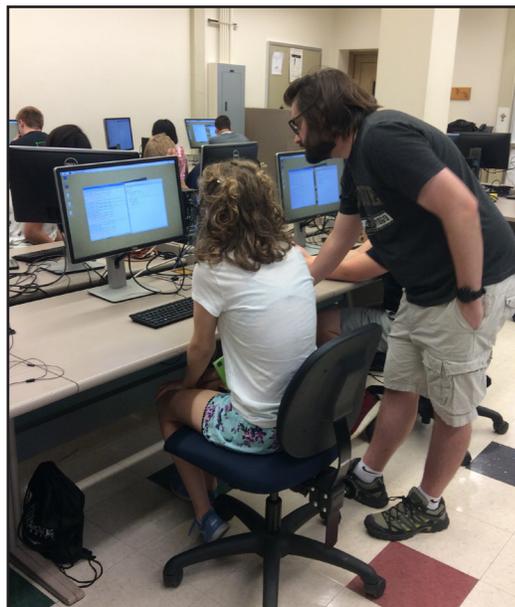


The inner workings of a Raspberry Pi.

top 10 computer languages used by programmers. It is used to program for web tools, video games, desktop graphics and networks.

4-H'ers continued their exploration of computer science through using Scratch and Google's CS First Game Design tutorial. With Scratch, 4-H'ers learned about programming concepts like variable declaration, looping structures and syntax.

Academy's STEM it UP computer technology session was an excellent outlet for 4-H'ers wishing to expand their knowledge of coding and learn the different parts of a computer, while getting a fun, hands-on learning experience!



Staff photos

Above, students try their hand at coding.

Left, Instructor Zach Weidner helps 4-H'er Madelyn Copperwaite, Harrison County, with a coding exercise.

Artwork: publicdomainvectors.org

Wings (continued from page 1)

the plane and glad to participate in the Science of Flight workshop.

The Writing Warriors' photographer, Maddie Powell from Tipton County, had the opportunity to fly and take pictures from above. This was Powell's first time flying and she returned with a bright smile on her face.

Powell said she expected a bumpy flight, but it was swift and smooth. She advised every new flyer to look forward to the experience.

"Don't be afraid to do it. Just go up there and have fun," she said.

When the delegates were not in the air they were in groups discussing



Indiana 4-H'ers prepare for takeoff at Purdue University Airport.

their flight or what they were anticipating in the flight. The enthusiasm in the room gave the workshop significant energy.

2018 4-H Academy FACTS

Delegates: 297

Counties: 63

Programs: 18

Animal Science/
Animal Bio-Science

Animal Science/
Animal Health

Animal Science/
Food Animal 1
(Beef, Dairy, Goat, Sheep)

Animal Science/Food Animal 2
(Poultry, Rabbit, Swine)

Animal Science/
Horse & Companion Animal
Citizenship: Start Local... Go Global!

Entrepreneurship

Exploring Health Careers

Intro to Emergency Medical Services

Food Science & Nutrition Science

Natural Resources

Plant Sciences

Show Me the Money

Spread the News

STEM it UP: Computer

STEM it UP: Engineering

STEM it UP: Robotics

STEM it UP: Science of Flight

2019 4-H Academy @ Purdue



- Make new friends!**
- Experience the college lifestyle!**
- Learn about careers!**
- Do cool stuff!**

June 12-14, 2019
Purdue University



Clover Conversations is a student-produced publication intended to give Indiana 4-H'ers practical communication experience.

Accuracy is important to us! Please report corrections to Mark Tucker at matucker@purdue.edu.

Clover Conversations Writing Teams

2018 4-H Academy @ Purdue



Writing Warriors

Maddie Powell, Tipton County; Tenmu Nakamura, Vanderburgh County; Katy Canaday, Hamilton County.

- ▶ **Madison (Maddie)** is a seven-year 4-H member from Tipton County. She enjoys running cross-country, throwing discus, and being a part of her community theater.
- ▶ **Tenmu (t)** is an eight-year 4-H member from Vanderburgh County. She enjoys creative writing and will continue her journalism education in the fall at Ball State University.
- ▶ **Katy** is a sophomore and the third of four children. When she is not working on her 4-H projects, she enjoys piano, speech, singing in the Hancock County Children's Choir, and American Sign Language.

Daily Trouble

Ava Sinclair, LaPorte County; Evan Ponce, Elkhart County; Rachel Angermeier, Vanderburgh County.

- ▶ **Ava** is a high school sophomore and seven-year 4-H member who enjoys playing ukulele and participating in her school's debate program.
- ▶ **Evan** loves to run cross-country and sing in the men's choir at his high school.
- ▶ **Rachel** is a high school senior. She's a member of her school's choir and drama department. She's also a lover of animals and music.



Fourth Estate

Kailee TenEyck, Vanderburgh County; Steven Kvachkoff, Lake County; Kendall Johnson, Warrick County; Rebekah Pryor, Warrick County.

- ▶ **Kailee** has been in 4-H for six years. She is in Junior Leaders, Armstrong High Lighters and Shooting Sports.
- ▶ **Steven** is a nine-year 4-H'er. He is involved in multiple activities in his school. He loves to write and enjoys reading and listening to music.
- ▶ **Kendall** is an eight-year 4-H'er. She is treasurer of her local club and news reporter for her county Junior Leaders club. She does ballet with the company at CCDE, and is a member of the Chargerettes at her high school.
- ▶ **Rebekah** is a 10-year 4-H member who has attended many trips throughout the years. This summer, she is serving on staff at SJLC and ISFYLC. She will attend Liberty University in the fall.