



Somerset County 4-H Presents



4-H Science-sational Day

April 6, 2019

(Register by March 23)

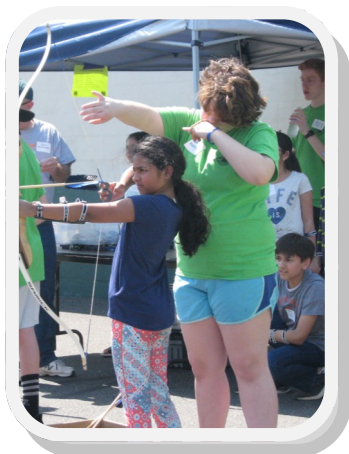
9:00 am—2:00 pm

Ted Blum 4-H Center, 310 Milltown Rd, Bridgewater

**A Day of Fun, Hands-On Science Workshops
For Grades 1 - 5**

Each workshop track offers participants hands-on experiences that explore science concepts. Topics include: biology, chemistry, engineering and so much more! All workshops are taught by volunteers with a passion for sharing their love of science with youth.

Register online at : <https://tinyurl.com/sciencesationalday> and mail or hand deliver the registration form, payment and permission form to the office. Cost per child is \$35.00. Additional siblings are \$30 each.



Opening Program presented by Science Tellers

Where audience participation will bring science and story telling to life!

RUTGERS
New Jersey Agricultural
Experiment Station

Cooperating Agencies: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and County Boards of Chosen Freeholders. Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider & employer.

What is 4-H Science-sational Day?

4-H Science-sational Day is a fun day of science learning for children in grades 1-5 presented by the Somerset County 4-H Youth Development Program. Youth will attend an entertaining and engaging program presented by Science Tellers and then split into groups by grade level (grades 1-3 or 4-5) to participate in hands-on workshops that allow them to learn about a variety of science topics.

- The program will be held on Sat., April 6, 2019 at the Ted Blum 4-H Center, 310 Milltown Rd., Bridgewater, NJ.
- Cost per child is \$35.00. Additional siblings are \$30 each.
- Lunch **MUST** be brought from home.
- Check-in starts at 9:00 AM (no need to come early).
- A parent/legal guardian **MUST** sign the child in and out of the program. If someone other than the parent/legal guardian is to take the child home, a note from the parent must accompany the child at check-in.
- Children may not leave the program **early** unless a parent/legal guardian signs them out.

Register online at: <https://tinyurl.com/sciencesationalday> and mail or hand deliver the registration form, payment and permission form to the office.

- **Checks should be made payable to: Somerset County 4-H.**

Please note: Pictures are taken throughout the day to be used for display and promotional materials. By allowing your child to attend this program, you acknowledge permission to use photos for display and promotional purposes.

Tentative Schedule for Science-sational Day

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|---|--|
| Check-in & Science Fun.....9:00-9:30 am | Lunch Break & Fun.....12:00-12:30 pm |
| Opening Program.....9:30-10:20 am | Workshop #3.....12:35-1:20 pm |
| Workshop #1.....10:30-11:10 am | Workshop #4/Evaluation..... 1:25-2:00 pm |
| Workshop #2.....11:15-11:55 pm | Check out in Gym2:00 pm |

What is 4-H?

4-H is a youth development program all across America. In New Jersey, the 4-H program is open to youth in grades K-13 (one year out of high school). In Somerset County, youth may be involved in more than 75 different 4-H clubs, after school activities, school enrichment and camping programs.

Each summer, the Somerset County 4-H Association holds the Somerset County 4-H Fair at North Branch Park in Bridgewater, NJ. This Fair is an opportunity for youth to display the projects they have been working on throughout the year, take on leadership roles, and have fun.

4-H is part of Rutgers, The State University's New Jersey Agriculture Experiment Station. 4-H offers educational programs to all youth in grades K-13, on an age-appropriate basis, without regard to race, religion, color, national origin, ancestry, sex, sexual orientation, gender identity and expression, disability, atypical hereditary cellular or blood trait, marital status, domestic partnership status, military service, veteran status, and any other category protected by law.

Be the Scientist!

Each youth will attend four workshops in the track. Three workshops in each track are the same, one is different. Tracks are based on grade level. All workshops are taught by volunteers. You pick your track when you register.

1st-3rd Graders

Track A-1

A Peek into Beaks

Why are bird beaks so different? What can we tell about a bird by its beak? We will explore different types of bird beaks and see how each type has evolved to help the bird eat the food it needs.

Science of the Body

Get moving in this action-packed workshop that teaches participants how their bodies respond to movement and exercise. Get your heart pumping, stretch your muscles, and learn what happens inside your body when you move!

Bubbleology

Become a bubble expert and learn about surface tension, adhesion, colors and mixtures.

Frogs, Lizards, Snakes, Oh My!

Explore and discover some interesting facts about reptiles and amphibians. The 4-H Sidewinders Herpetology Club will present a live demo and talk about their various cold blooded pets.

Track A-2

A Peek into Beaks

Why are bird beaks so different? What can we tell about a bird by its beak? We will explore different types of bird beaks and see how each type has evolved to help the bird eat the food it needs.

Science of the Body

Get moving in this action-packed workshop that teaches participants how their bodies respond to movement and exercise. Get your heart pumping, stretch your muscles, and learn what happens inside your body when you move!

Bubbleology

Become a bubble expert and learn about surface tension, adhesion, colors and mixtures.

It's So Fluffy!

Have a meet and greet with our furry critters! Get hands on experience with rabbits, guinea pigs, and other small animals. Run a rabbit agility course and create crafts and games with our new fluffy friends from the 4-H Small Animal Clubs.

Space is limited to the first 150 participants!! Register early!



Be the Scientist!

Each youth will attend four workshops in the track. Three workshops in each track are the same, one is different. Tracks are based on grade level. All workshops are taught by volunteers. You pick your track when you register.

4th-5th Graders

Track B-1

Archery

Use bows and arrows to understand the safe and responsible use of archery equipment at home and on the shooting range. Presented by the 4-H On Target Archery Club.

Tooth vs. Acid

The battle begins here! Work with the Colgate team to make toothpaste and conduct experiments to show how toothpaste protects your teeth from acid attack.

Bake a Board

You've baked food before, but what about a circuit board? Come assemble a badge with blinky lights and learn about electronics along the way! Presented by the 4-H Bananabots Robotics Club.

Squid-tastic

It's time to sharpen your scissors! In this workshop, we'll be dissecting a preserved squid! Work with a partner to learn squid anatomy and possibly use squid ink to write something.

Track B-2

Archery

Use bows and arrows to understand the safe and responsible use of archery equipment at home and on the shooting range. Presented by the 4-H On Target Archery Club.

Tooth vs. Acid

The battle begins here! Work with the Colgate team to make toothpaste and conduct experiments to show how toothpaste protects your teeth from acid attack.

Bake a Board

You've baked food before, but what about a circuit board? Come assemble a badge with blinky lights and learn about electronics along the way! Presented by the 4-H Bananabots Robotics Club.

Eye see you

Learn how an eyeball works and peer into the inner workings of the lens and fluids as you dissect a preserved cow or sheep eye. This dissection requires only forceps & scissors.

Space is limited to the first 150 participants!! Register early!



New Jersey 4-H Event Permission Form for Youth



Both sides of this form must be completed by all youth participating in overnight activities, field trips, events requiring group transportation, and any other events sponsored through the 4-H Youth Development Program where it is deemed necessary by the event coordinator(s) (paid 4-H staff and/or registered 4-H volunteer) responsible for the youth participants. The form should be submitted prior to the event. The form has five parts: (1) information about the participant and activity, (2) parental permission and liability release, (3) medical emergency authorization and health information, and (4) code of conduct and (5) media policy. *Be sure to complete all five parts and sign where requested!*

Information about the Youth Participant and Activity

Name of Youth participant: _____

Address: _____ City: _____ State: _____ Zip: _____

Telephone number: (____) _____ Email Address: _____

4-H county: _____ Birthdate: _____ Grade: _____

Name of activity/event: _____

Name of 4-H group sponsoring or participating in this event: _____

Location of event: _____

Date and time of participation of individual named above: _____

Parent Permission and Release of Liability

I hereby give my son/daughter named above permission to participate in the event listed. Although Rutgers Cooperative Extension and its event coordinator(s) will use the utmost precaution in guarding the health of the above participant and preventing accidents, I release them from any liability in case of illness or injury as a result of this activity. Furthermore, I release the owner and driver of the car transporting my child to and from the event, from any liability in case of illness or injury.

Sign Here

Signature of parent or guardian: _____

Medical Emergency Authorization and Health Information

I authorize the event coordinator(s) to dispense the prescription drugs and/or over the counter medications listed below in accordance with the instructions provided on the label (prescription drugs) or below (over-the-counter medications). In case of sudden illness or an accident to the above named participant requiring immediate treatment or surgery while he/she is a participant in this activity, I authorize the 4-H chaperone(s) to take such action as seems appropriate to protect the health and physical well-being of the above participant. This authority extends to any physician(s) and/or surgeon(s) selected by the event coordinator(s) to perform medical and/or surgical procedures including examinations and tests necessary to preserve the health and physical well-being of the above named participant. All efforts will be made to contact the parent(s) or guardian(s) in case of emergency.

| | | | |
|--------------------------------|---------------------|---|---------------------|
| _____ | _____ | _____ | _____ |
| Name of parent/guardian | Phone number | Name of additional emergency contact | Phone number |

The following information is provided as an aid to the event coordinator(s) in dealing with the well-being of the participant. The participant has the following health conditions: (include allergies, handicaps, diabetes, pregnancy, asthma, medications needed, etc.).

Health conditions: _____

Medications/Instructions: _____

Health Insurance: Company Group# _____ ID# _____

Sign Here

Signature of parent or guardian _____

New Jersey 4-H Code of Conduct



The primary purpose of the New Jersey 4-H Code of Conduct is to ensure the safety and well-being of all participants at 4-H sponsored events and activities. It applies to all participants, with participants defined as 4-H members, their parents, and volunteers.

As a participant in the 4-H program, I will:

- **Conduct myself in a courteous manner and treat members, parents, 4-H volunteers, Extension staff, judges and others with respect. Appropriate language and behavior are expected at all times.**
- **Respect and adhere to the rules and guidelines of the 4-H program including all those specific to a 4-H event or activity.**
- **Uphold an individual's right to dignity by supporting an environment of inclusion which welcomes involvement of participants from all backgrounds.**
- **Accept supervision and support from county and state 4-H staff while participating in the 4-H program. This includes acceptance of supervision and support from appointed 4-H volunteers coordinating 4-H events and activities.**
- **Obey local, state and federal laws.**

Participants who fail to adhere to the New Jersey 4-H Code of Conduct are subject to a range of disciplinary actions. Such actions will be taken in compliance with the New Jersey 4-H Discipline Policy and Procedure. When appropriate, immediate corrective action will be taken at the 4-H event to ensure the safety and welfare of all participants.

I understand if I fail to adhere to the above Code of Conduct, I will be subject to disciplinary action and potentially prohibited from attending and participating in the New Jersey 4-H Youth Development program.

| | | |
|--|-----------------------------------|-------|
|  | _____ | _____ |
| | Signature of participant in event | Date |
|  | _____ | _____ |
| | Signature of parent or guardian | Date |

Revised: January 2013