

All tickets to each session may be picked up at the front doors as you come into the school. You may begin entering at 5:15. Each person may choose 3 events to go to. Please choose sessions according to your child's age or interest. All children must be accompanied by a parent. We ask that adults sit or stand around the room in order for the students to view the session. The sessions will not begin until after our opening session in the cafeteria.

Opening Session

Internet Safety for Students - Officer Rooks — Cafeteria

Officer Rooks addresses the importance of knowing the 5 W's of your Children's internet usage. Who do they chat with, Where do they search, When are they on the computer or cell phone, Why are they on them and What are they doing on the internet?

K - 2 Events

The Power of Light (Mrs. Randall, Mrs. Selman, Mrs. DeBold) - Location # 1

Students will see how Light can be broken into a rainbow of colors, learn what a laser is and see how it works. They can also see how the sun's light gives us energy and watch several experiments with light.

Frostbite Theater (Mrs. Powell and Mrs. McCullough) — Location # 2

Have you ever wanted to play with liquid nitrogen, but didn't happen to have any lying around the house? No problem! We will do the science experiments and you can watch! There will be Shrinking Balloons, Frozen Fruit, and Shattering Roses...Plus, using liquid nitrogen, we are even making ice cream that you can take to eat!

The Secrets Behind Disposable Diapers (Mrs. Clinkscales, Mrs. Exum, Brownie Troup # 1339) — Location # 3

Have you ever changed a diaper and noticed the tiny crystals on the baby's skin? Well, you've uncovered the secret of superabsorbent, disposable diapers. Come and explore polymer magic and discover the superabsorbent secret. Second grade teachers will amaze you with science as you dig deeper into this superabsorbent secret.

3 - 5 Events

Mini ROBOTICS (Mrs. Hannahs, Grace Hannahs, Carter Neely) - Location # 4

Want to create a robotic homework machine? Well, this offering might give you a few techno tips to get started. At this session, fifth graders will showcase this year's Movin' On First Lego League challenge .

Tortoises! (Mrs. Westog, Mrs. Hendrickson) Location # 5

Come see live tortoises and learn about their habitats, care, and feeding. We will have four live tortoises on display with many interesting facts to share.

How Can Ice Be Dry? (Mrs. Maddox, Mrs. Fuhrmanek, Mrs. Peterman) — Location # 6

Come and investigate the properties and reactions to dry ice. We will find "Foggy Effects", "Listen to a Singing Spoon", and "Explore Some Scientific Explosions"! Come join the fun!!

Everyone Events

StarLab (Teachers from Elachee Nature Center) - Location # 7

Explore the mysteries of the night sky inside the Star Lab Planetarium. Learn about stars, constellations, mythology and other interesting parts of the astronomical universe. Space limited to 30 per session.

Our Shared Forest (Mrs. Ferris, Mrs. McDaniel) - Location # 8

Our Shared Forests (OSF) is a multi-cultural, environmental education project featuring 10 interactive stations. Students will 'Dig In' as they develop a greater knowledge of bird habitats at Puckett's Mill and will 'Fly High' as they investigate migratory birds! Our Shared Forests is connecting local education to global conservation.

Sponsored by PMES PTA, GA PTA, The State Botanical Garden of FA, Maquipucuna foundation of Ecuador, UGA and several Environmental Educational Centers in Georgia.

Food for Thought...and Everything Else You Do (Mrs. Smith, Ms. Allred, Ms. Southard) — Location # 9

Kids, are your parents eating enough fruits and vegetables?? Some days its hard to fit in 5-7 servings! Come learn how to make healthy snacks for your family to keep them fit and strong.

Starry Night (Mr. Ramakers) - Location # 10

Check out the night sky with teachers from the Charlie Elliot Chapter of the Atlanta Astronomy Club. Participants will be able to view planets and constellations with a variety of telescopes. This event will be outside, so dress for the weather.

Gwinnett County Fire Fighters—Station 18 — Location # 11

Our amazing local heroes are serving this area with fire protection and emergency medical services. This evening they will provide fire safety tips, show the fire engine, demonstrate their fire protection gear, and teach children not be afraid of Firefighters. So come out and visit them and see their firefighting apparatus. As always, they will be on-call for emergencies so please don't be too disappointed if they have to leave early.

Red, Yellow & Green (Mr. Karnowski) — Location # 12

Ever wonder why traffic signals are timed the way they are. A representative from **Street Smarts, Inc.** will be here to explain just how complicated this task can be. Fortunately, they have technology to help. Part of the demonstration will be a 'traffic box', which is what traffic engineers use to develop the traffic signal timing for various traffic lights.

The Awesome Brain (Riley Ziller-Townsend, Biomedical Engineer from GA Tech) — Location # 13

The human brain is one of the most mysterious, complicated and awesome things in the entire universe. In this presentation, students will be shown some of the ways science and engineers try to figure out how the brain works. Students will also look at the differences between brains in different animals. At the end of the presentation, you will be able to see and touch a REAL HUMAN BRAIN as well as the brains of a monkey and a rat.

Bag of Germs (Mr. Corley) — Location # 14

Have you ever wondered how germs get spread just by touching something? The Bag of Germs experiment demonstrates how germs "hide" from us and even though our hands may look clean, they can actually be very, very dirty. Step under the black light and see what germs may lurk on *your* hands!

4-H - (Mill Creek High School) - Location # 15

Explore the wonders of science with 4-H! Through a hands-on learning experience you will be able to learn about space, wildlife, and the ocean. You will leave this session with a new found interest in science.

Technology Behind Physical Security Systems (Mr. Hanley, Mrs. Hanley)—Location # 16

Have you ever wondered what technology airports and banks use to ensure a safe environment? You will see a demonstration of multiple security features such as video analytics, video surveillance, biometric readers, etc. We will also show how different networks from multiple locations can act as one seamless system.

Federal Bureau of Alcohol, Tobacco, Firearms and Explosives (Special Agent Lee, ATF Special Agents) -

Location # 17

Come and see how the science of the sensitive nose and specialized technology is used by the ATF. The ATF is the lead Federal agency in Bombing and Arson investigations. Special Agents will be on hand to demonstrate some tools used in their investigations. An ATF Explosive Detection Canine as well as the ATF's Explosives Robot will be demonstrated.

Time Schedule

5:45 - 8:00

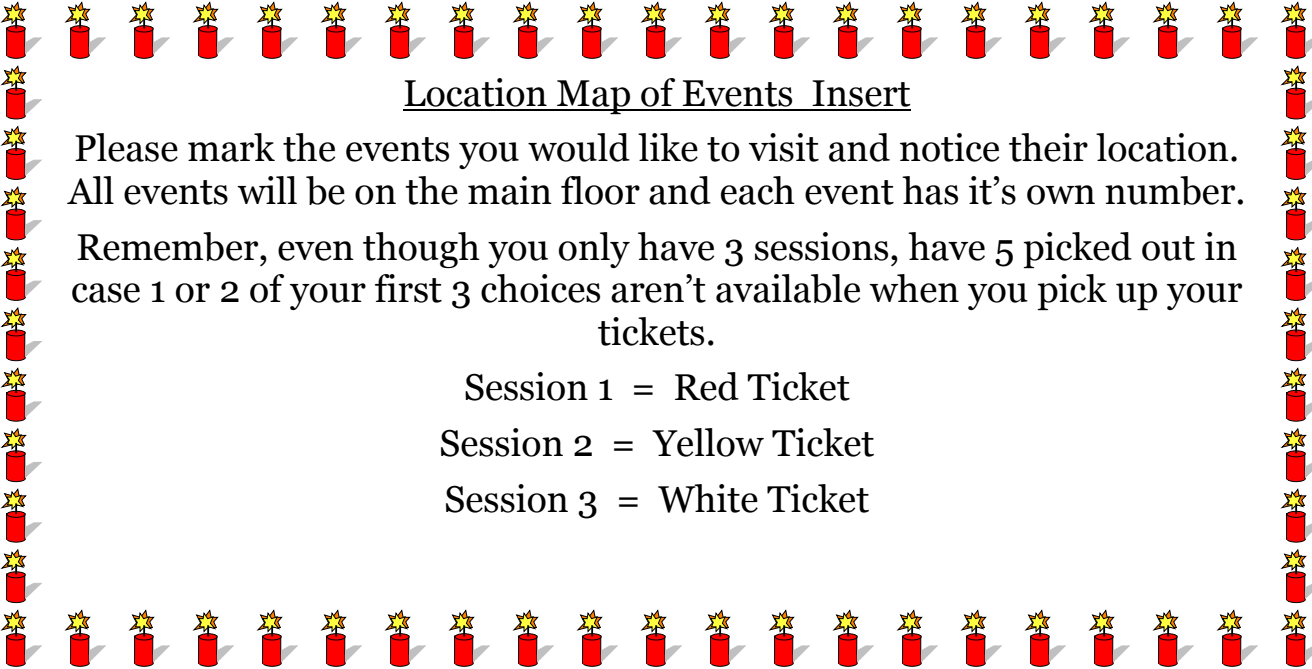
5:45 - 6:15 - Opening Event

6:15 - 6:45 - Session 1

6:45 - 7:15 - Session 2

7:15 - 7:45 - Session 3

7:45 - 8:00 - Closing



Location Map of Events Insert

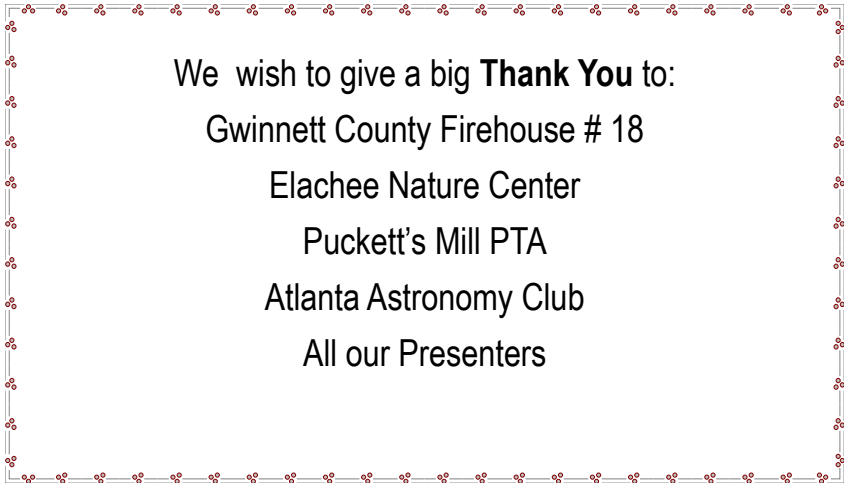
Please mark the events you would like to visit and notice their location. All events will be on the main floor and each event has it's own number.

Remember, even though you only have 3 sessions, have 5 picked out in case 1 or 2 of your first 3 choices aren't available when you pick up your tickets.

Session 1 = Red Ticket

Session 2 = Yellow Ticket

Session 3 = White Ticket



We wish to give a big **Thank You** to:

Gwinnett County Firehouse # 18

Elachee Nature Center

Puckett's Mill PTA

Atlanta Astronomy Club

All our Presenters