

Public Page

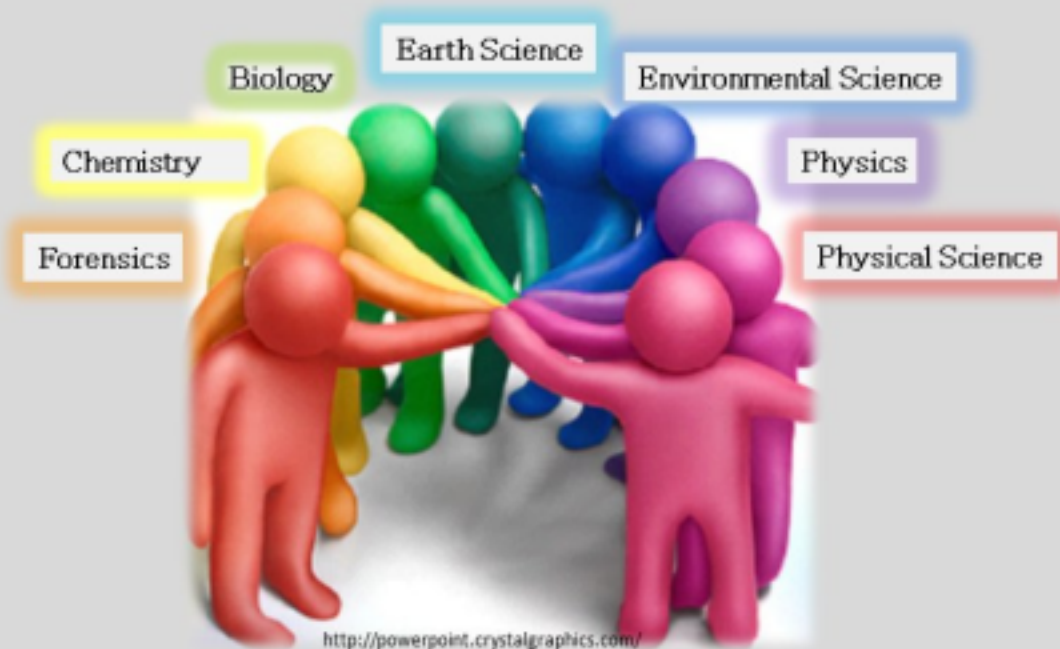
Science Department 08/11/2016



**Science Department**

**08/11/2016**

# High School Open House



"Providing an exemplary individualized and engaging educational experience for all students"

Different Subjects, Same Passion, Same Mission

## Department Overview

# Department Overview

**General**

- [SCI113: Earth Science V](#)
- [SCI203: Biology V](#)
- [SCI303: Chemistry V](#)
- [SCI403: Physics V](#)
- [SCI102: Physical Science V](#)
- [SCI030: Forensic Science \\* V](#)

**Honors/AP**

- [SCI204: Honors Biology V](#)
- [SCI304: Honors Chemistry V](#)
- [SCI404: Honors Physics V](#)
- [SCI500: AP Biology](#)
- [SCI530: AP Environmental Science](#)

**Electives**

- [SCI010: Environmental Science \\*](#)
- [SCI030: Forensic Science \\* V](#)

**Credit Recovery**

- [SCI106: Physical Science V](#)
- [SCI116: Earth Science V](#)
- [SCI206: Biology V](#)
- [SCI306: Chemistry V](#)



V = Virtual Lab

<http://www.k12.com/curriculum/high-school-program-courses/high-school-course-list.html>



Earth Science

# Earth Science

- This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate.
- The program consists of in-depth online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home.
- The course prepares students for further studies in geology, meteorology oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods.



Biology

# Biology

- In this comprehensive course, students investigate the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology.
- The program consists of in-depth online lessons including extensive animations, an associated reference book, collaborative explorations, virtual laboratories, and hands-on laboratory experiments students can conduct at home.



## Chemistry

# Chemistry

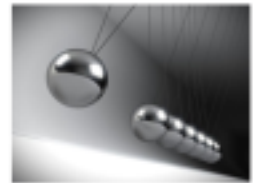
- This comprehensive course gives students a solid basis to move on to future studies. The course provides an in-depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry.
- The course includes direct online instruction, virtual laboratories, and related assessments, used with a problem-solving book.



Physics

# Physics

- This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus.
- The course gives students a solid basis to move on to more advanced courses later in their academic careers. The program consists of online instruction, virtual laboratories, and related assessments, plus an associated problem-solving book.



## Physical Science

# Physical Science

- Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter.
- Students develop skill in measuring, solving problems, using laboratory apparatuses, following safety procedures, and adhering to experimental procedures. Students focus on inquiry-based learning, with hands-on laboratory investigations and virtual laboratory experiences.





Forensic Science

# Forensic Science

- This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist.
- Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.



Environmental Science

# Environmental Science

- This course surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science.
- Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.



Slide 3

# TEACHER INTRODUCTIONS

**Please Feel Free to Roam Through the Slides....We are here to address any questions you may have. 😊**

Heather Harrison

**HEATHER HARRISON**

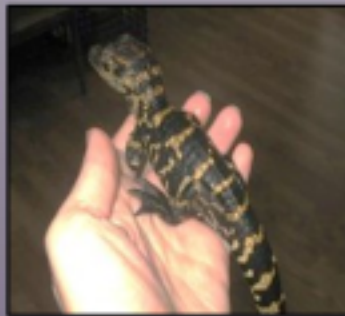
I HAVE NO SPECIAL TALENTS. I AM ONLY **PASSIONATELY CURIOUS.**  
-ALBERT EINSTEIN

*Adventurer, Mastermind,  
Legend, Lover of  
Bitmojis...  
And a Science Lead!*

Amy Capello

Amy Capello

Lead Science Teacher,  
Georgia Cyber Academy



- ❖ Masters in Biology & live in Savannah
- ❖ Worked with Tybee Sea Turtle Project for 10 years
  - ❖ Son named Jayce - only human child
- ❖ I have a pet alligator, snake, turtle, dog, and cat

Kimela Bryant

# Kimela Bryant

*Loves All the Sciences*



## Family

- Married 23 years
- Two daughters in college

## Passions

- People & Community
- Science, Leadership, Education, Holistic Health and Nutrition

## Work

- Georgia Cyber Academy – September 2010
- Henry County Public Schools
- United States Department of Agriculture
- US Army Reserves

## Hobbies

- Thinking
- Creating
- Organizing
- Critiquing Einstein theories

## Education

- Walden University - Educational Technology (AbD), Educational Leadership (EDD candidate 2018)
- University of Georgia – Educational Administration and Leadership
- University of Phoenix – Distance Learning (MA)



*Science Chair*




... a little about me

Erika Robinson

Education-B.S. in Biology & Science Education from KSU; M.Ed. from UGA  
Teaching-science with GCA for the past 8 years!  
Loves-family, travel, the outdoors, cooking & of course, eating!!!  
Welcoming-a NEW baby boy soon!

Mrs.  
Robinson



Beverly Hamm



# Beverly Hamm



**Background:** Originally from Cleveland, OH and have lived in GA for 19 years.

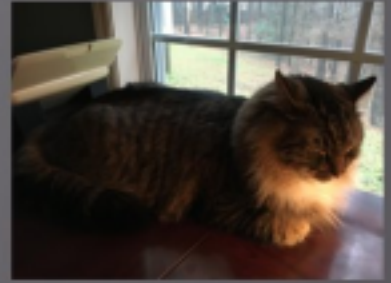
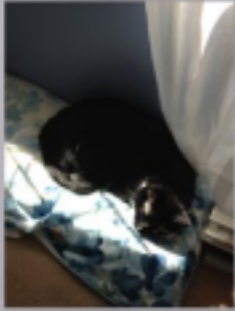
**Education:** B.S. in Environmental Science, Allegheny College- Meadville, Pa;  
Masters of Arts and Teaching, Emory University – Atlanta, GA

**Family:** My husband Drew and I live in Cumming, GA with our three children-  
Audrey-13, Alex-10, and Ashlynn-5.

**Interesting facts:** I was one of the first teachers hired at GCA, so I am starting my 10<sup>th</sup> year! I love to travel and went to the beach and took a road trip to Ohio, New York, and Pennsylvania this summer. I have also visited over 10 countries. We are also big UGA fans.... GO DAWGS!



Mark Hines



My name is Mark Hines and I live in Dallas, GA

I have a stepson who is 14, a daughter that is 16 and a son that is 11. I have 2 cats (Snickers and Shadow). Snickers is my class mascot.

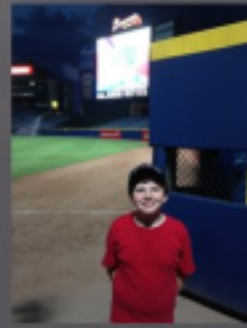
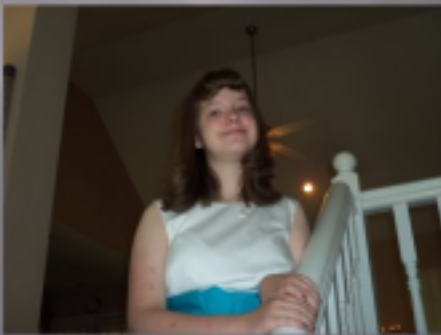
I have been married to my lovely wife for 5 years.

This is my 17<sup>th</sup> year in education (4 HS, 4 Alternative, and 4 MS in BAM; 5<sup>th</sup> year at GCA).

I have experience teaching all core Science classes (except advanced) from 6-12.

I received my Master degree in Education in 2012 from Grand Canyon University.

I graduated from West GA College (now University of West GA) in 1992.



Kelley Ergle

# Kelley Ergle



This is my 9<sup>th</sup> year teaching &  
my 3<sup>rd</sup> year with GCA!

I have been married for 10 years!

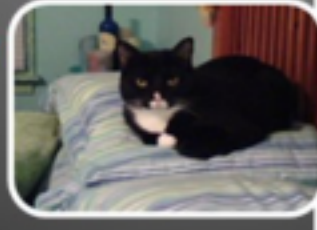
I love hanging with my dogs & spending time with  
nieces & nephews! I also like to run & ride my bike!



Jessica Petrea

## Jessica Petrea

- 14 years of teaching experience
- 4<sup>th</sup> year with GCA
- Masters Degree in Secondary Education Broad Field Science from Armstrong Atlantic State University
- Bachelor Degree in Marine Science with minors in Chemistry and Biology from Coastal Carolina University
- Born and raised in Chicago, Illinois
- Live in Savannah , GA
- I like to travel
- My kids are furry and four legged



Donna P.



*Grandsons: Killian & Benjamin*

*Donna and family*  
Dominic, Michael, Anthony and Anna

- ❖ I love working for GCA!
- ❖ I have 4 children & 2 grandsons
- ❖ I am very active in our church
- ❖ I enjoy reading &
- ❖ Daily walks with Bernadette
- ❖ And boating on Norris Lake
- ❖ Favorite vacation spot: the beach!

*Bernadette*

Mrs. Cheri Alderman



## Mrs. Cheri Alderman

- B.S. Education & M.Ed. Secondary Science from Georgia Southern University {GO EAGLES!}
- Have taught 15+ years in GA public schools, 3 years in virtual school
- Born & raised GA girl
- Love to travel but I've never been out of the country
- Hate cold, winter months
- My FAVs: CHOCOLATE, being outdoors, baking, watching football, the beach
- Married for 20 years to my husband Mark & we have 3 children (Lorin-16, Eleana-14, & Emmett- 4)



Michelle Hague

# MICHELLE HAGUE



UWG Graduate (2007); BS: Earth/Space Science  
KSU Graduate (2013); M.Ed Instructional  
Technology

Teaching Science (Middle and High) for 8 Years  
Teaching with GCA since 2013

Live in Canton (Just Moved to New House) with my  
small family: Wife-Danielle and Daughter-Owen

LOVE the outdoors, tech, and science!

HATE driving, birds, and slow computers!



Elizabeth Kemp - Environmental Science



# ELIZABETH KEMP - ENVIRONMENTAL SCIENCE

- I live in Canton, GA with my husband, 1 year old son, and four fur babies (our little shih tzu mix is a little camera shy)!
- I was a brick and mortar high school teacher/coach for 5 years...this will be my 7<sup>th</sup> year teaching, and 2<sup>nd</sup> with GCA!
- Fall is my favorite season and UGA is my favorite team...GO DAWGS!!



Lindsay West

**Stroller Strong Moms**

**ARMY TEN-MILER**  
AUSA ★ KBR

### All about Me

Lindsay West

**MY FAMILY**

Age 32 Birthday April 17

### Favorites

Food French Fries  
Color Green  
Activity alone time  
Music Everything!  
Movie Blue Crush  
Subject Science  
Vacation Anywhere I haven't been before

When I grow up  
NatGeo Photographer

My Superpower  
Functioning on no sleep!

Biggest Fear  
Car trouble

Doodle Art Alley ©



Rebekah Zimmerman



# Rebekah Zimmerman

## HS Science Teacher

- 6<sup>th</sup> year teaching, 2<sup>nd</sup> at GCA
- Bachelor of Science and MAT from Kennesaw State University
- I enjoy reading, Alabama football - Roll Tide!, learning and teaching science!
- Wife to Adam and mommy to two beautiful girls, Avery and Adalyn!



Turanza Jackson

Married 11 years



Atlanta, GA



Travel,  
Theatre,  
Music,  
Dance,  
Fashion



Family



Dr. Turanza Jackson, Ed.D  
*Instructional Leadership*

10 Years Science Educator



Rise Up !!!



B.S. Chemistry



M.Ed.- Secondary Science



Ed.D., Education, Instructional Leadership/  
Adult Education

Deena Cook

## DEENA WALSH COOK

- ❖ TEACHING FOR 7 YEARS
- ❖ GRADUATED FROM GEORGIA TECH IN 2003
- ❖ MASTER'S SECONDARY SCIENCE FROM PIEDMONT COLLEGE IN 2013
- ❖ MARRIED MY HIGH SCHOOL SWEETHEART-BEEN TOGETHER FOR 20 YEARS
- ❖ WE HAVE ONE DAUGHTER CAITLYN WHO HAS A HORSE CRAZY PASSION!!!



Wandrea S.

**Wandrea Strowbridge**  
High School Science Teacher

*Nearly 20 Years Experience*

*Served as a:*  
Middle and High School Teacher & Learning Coach for GCA

*MS Brain Based Education*  
*BS Biology*

*My Husband and I*

*My 3 Sons*  
Travis and Travaris, Age 21  
Trevor, Age 10

*Montego Bay, Jamaica*

**Things I Enjoy:**  
Spending time with family  
Reading  
Traveling  
The Beach  
Watching sports  
All things PURPLE

Richard Faucett

## A brief intro...

- *Richard Faucett*
- *HS Science teacher for 10 years, second year here at GCA*
- *Degree in Geoscience, with a minor in Geology*



- *Married for 17 years (June 12<sup>th</sup>)*
- *Three children: a daughter that's 14 (Dear Lord, please help me...), son that is 11 and a daughter that is 6*
- *Hobbies: Hiking, Kayaking, Working at our family farm*



Stacy Yeomans B.s. in secondary science education I have taught for 4 years in brick and mortar and 3 years at the college level.

STACY YEOMANS  
B.S. IN SECONDARY SCIENCE  
EDUCATION  
I have taught for 4 years in brick and mortar and 3  
years at the college level.



I love my family! I have been married to my best friend for 8 years. Kate is my very spirited and sweet 5 year old and Maranda is my very intelligent and determined 23 year old that came into our lives my first year teaching! I enjoying traveling, especially to the beach and mountains. I am passionate about science, reading, and our pets!

KC Billy



# Kelechukwu (KC) Billy



- 7 Years teaching
- 6 Visits to Africa
- 5 Years throwing shot put
- 4 Siblings
- 3 Years in Atlanta
- 2 Years married
- 1 Baby girl!!

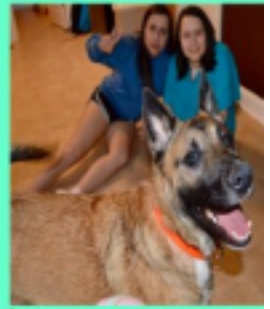


Amy Binder



# Amy Binder~

- Mercer University graduate- Class of 2000- Bachelor of Science degree in Middle Grades Education.
- University of Phoenix graduate- Class of 2006- M.Ed. degree in Curriculum and Instruction
- Certified to teach 4-12 Science, 4-8 Reading and Social Studies, and Gifted
- My husband Steve and I have been to three countries (Can you guess without Googling?)
- Bandit is a German Shepherd
- I have 3 kids-2 are in 12<sup>th</sup> grade and 1 is in 8<sup>th</sup> grade. (Can you infer which two are seniors?)
- I speak Spanish, Japanese, and know a little French and Hebrew.
- We are football fanatics. Every Friday we are at high school football games and on Sundays we are sitting in the living room screaming for our beloved



## Pittsburgh Steelers.



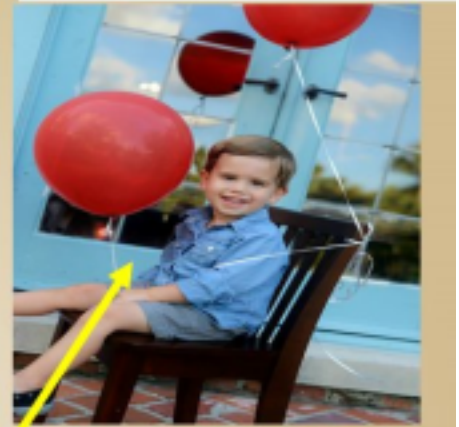


Rachel Quirello

# Rachel Quirello

## Fun Fact:

I was a zookeeper at two different zoos before I was a teacher.



This is my 13<sup>th</sup> year teaching Science! I taught 7 years in B&M classroom and 5 years virtually. This is my 1<sup>st</sup> year with GCA!



Master of Arts in Education-  
University of Texas-Arlington



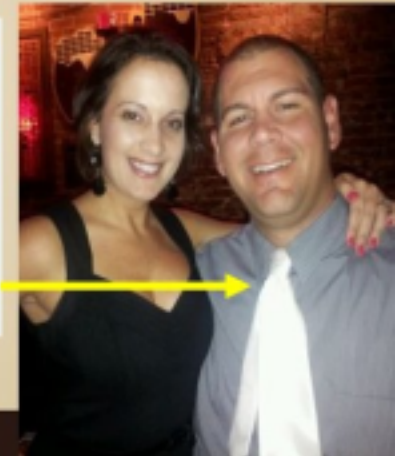
Mojo



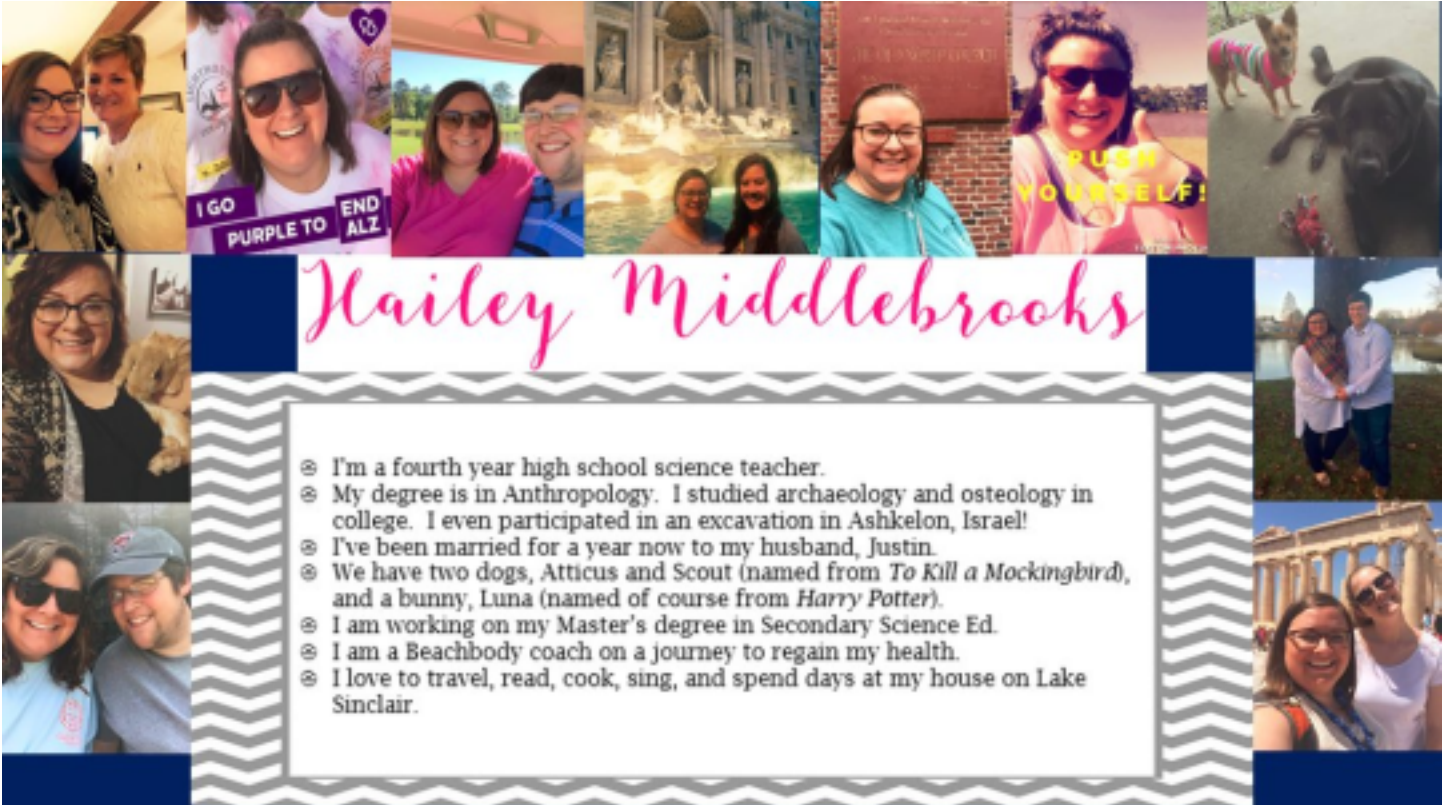
Phantom

(My rescue puppies)

My adorable son Cole and my amazing husband Ryan!



## Hailey Middlebrooks



## Hailey Middlebrooks

- ⊗ I'm a fourth year high school science teacher.
- ⊗ My degree is in Anthropology. I studied archaeology and osteology in college. I even participated in an excavation in Ashkelon, Israel!
- ⊗ I've been married for a year now to my husband, Justin.
- ⊗ We have two dogs, Atticus and Scout (named from *To Kill a Mockingbird*), and a bunny, Luna (named of course from *Harry Potter*).
- ⊗ I am working on my Master's degree in Secondary Science Ed.
- ⊗ I am a Beachbody coach on a journey to regain my health.
- ⊗ I love to travel, read, cook, sing, and spend days at my house on Lake Sinclair.

Rachel Gunn



**MRS. RACHEL GUNN**

**Professional Life:**

- 5<sup>th</sup> year teaching
- HS Science
- Ed.S.
- Instructional Technology
- Absolutely love my students!

**Personal Life:**

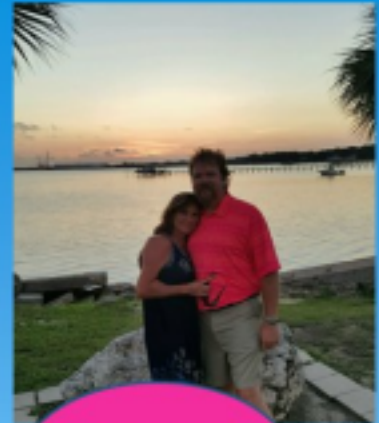
- Just moved to Marietta, GA
- Husband, Beau
- Daughter, Elyse
- 1 horse, 1 dog, and 2 cats

Slide1



**I have 2 Boys:  
Emmett 16 & Cam 13**

- I live in Homer, Ga.
- I have a ED.S in Curriculum, Master's in Special Education, and BS. In Physical Ed.
- This is my 21<sup>st</sup> year teaching
- 3<sup>rd</sup> yr at GCA



**Married  
for 20 yrs.**



**I love the  
BEACH!**

# Kim Mabry

**High School Resource Physical Science, Earth Science, and Environmental Science**

Don Rice

# Don Rice

- Graduated from North Georgia College and State University
- 5th year teaching at GCA
- Live in Cumming - Forsyth County
- Married with three children and a Granddaughter
- Love Basketball; son will play basketball at Reinhardt University
- Enjoy playing Fantasy Football
- Have three cats and a dog



Just hanging out



Bigger UNC Fan



Big Steelers Fan



Go Hawks



Slide1

**Rachelle Hoehn**

6 years teaching  
1 new baby  
2 dogs  
1 cat

The collage features several photographs: a vertical strip on the left with three images (a person on a horse, a woman with a horse, and a woman dancing); a top row with three images (a person in a red and black costume, two dogs on a couch, and a woman holding a white card); and a large photo of a smiling baby in a dark dress and red headband. The background is light blue with decorative black wings.