Mar 6th, 1:50 PM - 2:35 PM

Moving Full STEAM Ahead

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ENSURING SUCCESS FOR EACH STUDENT
To enrich the lives and learning environments of students by creating educational opportunities that expose students to a deeper understanding of a rigorous curriculum and that provide opportunities to explore the world in which they live.
416 Students
35% African American
15% Hispanic
6% Other
45% White

11.3% SWD
6% TAG
46% EIP
82% SES

Established in 1954
Converted to Charter School 2014
Title I School

Distinguished Title I School for 10 consecutive years!

Reward School 2015: Highest Progress School

Grants & Donations Received: $275,000 Charter Competitive; Title I; City of Hampton; Fernback Science Center; Georgia Aquarium; Reward School; PIE; Atlanta History Museum
SY 12: One day a week: Some students offered an extra Fine Arts class

SY 13: One day a week: All students took a STEAM Class

SY 14: Two days a week: All students took a STEAM Class

SY 15: Five days a week: All students take 2 STEAM Stations a day

Science

Cosmetology

Cross section of skin:
- Horny (scaly) layer of epidermis
- Basal cell layer of epidermis (make new skin cells)
- Sweat pore
- Hair follicle
- Sebaceous gland (makes sebum which holds the skin)
- Hair
- Epidermis
- Dermis
- Blood vessels
Horticulture
Science

- **Kids in the Kitchen**: Kindergarten – Learn math & science as students cook tasty treats.

- **Growing Minds in Science**: Kindergarten – Professor STEAM takes students on a journey with hands-on science experiments.

- **Fitness Fun**: First – Learn why eating healthy & exercising are important to a healthy life.

- **Treasures from Trash**: Second – Learn about the environment & recycling through hands-on projects.

- **Girls in Pearls**: Third – Learn how young ladies can become anything they want, especially in science & math!
Science

- **Cosmetology**: Fourth & Fifth – Learn the basics of body structure & nail, hair, & skin care.
- **Mad Scientist**: Fourth & Fifth – Learn to explore the world of science.
- **Horticulture**: Fourth & Fifth – Learn about plants & the environment through hands-on projects in the greenhouse.
- **Health & Fitness**: Fourth & Fifth – Learn about fitness & good nutrition.
Technology

Photography & Blogging
Technology

- **Reading Warriors**: First – Stride Academy is an award-winning, cross-platform, adaptive learning solution that quickly accelerates learning with engaging curriculum engineered to address critical learning standards.

- **Bookin’ & Cookin’**: Third – Researching different cultures from around the world & trying a variety of foods!

- **Broadcasting**: Fourth & Fifth – The HNN crew creates & edits their script, then records & puts together the daily broadcast.
Technology

- **TAG Exploration**: Fourth & Fifth – TAG students explore blogging, critical thinking, & a variety of apps.

- **Computer**: Kindergarten through Third – Students learn typing skills, play academic games, & create projects.
Engineering
Engineering

- **Engineering is Elementary**: Fourth & Fifth – Learn about the Engineering Design Process, green engineering, then plan & build a racer for the “Recycled Racer Rally.”
Arts

Creative Stitchery
Performing Sign Language
Dance
Chorus & Ensemble
Advanced Art
Arts

- **Salsa on Stage**: Kindergarten – Experience & perform classic tales in Spanish.
- **Super Stretcher**: First – Learn relaxing techniques to clam the body & maintain focus, as well as strengthening & balancing poses (yoga).
- **Communication Nation**: Second – Learn about ways to communicate without speech & gain a better understanding of the hearing impaired through song, poetry, & dance.
- **Rock On!**: Third – Learn the basics of playing the guitar, including rhythm, beat, chords, strumming, patterns & much more.
- **Cosmetology**: Fourth & Fifth – Learn the basics of body structure & nail, hair, & skin care.
Arts

- **Piano**: Fourth & Fifth – Improve your music-reading skills & learn to play REAL pieces of music on the piano.
- **Drumming 101**: Fourth & Fifth – Learn how to read music notes, keep tempo, & play the drums.
- **Dance**: Fourth & Fifth – Develop coordination as well as an understanding of dance concepts & terminology. Learn to use dance as a means of creative self-expression.
- **Visual Arts**: Fourth & Fifth – Learn about ceramics.
- **Creative Stitchery**: Fourth & Fifth – Explore basic stitches of crochet. Learn the basics of plastic canvas & yarn.
Arts

❖ **What’s Your Sign?:** Fourth & Fifth – Learn basic American Sign Language to interpret a song & poem for a public audience.

❖ **HECS Chorus:** Fourth & Fifth – Chorus members will learn to sing to the best of their abilities.

❖ **General Music:** Kindergarten through Third – All students learn music vocabulary & standards.

❖ **Art:** Kindergarten through Third – All students learn art standards.
Math

Cooking with Math
Math

- **Kids in the Kitchen**: Kindergarten – Learn math & science as students cook tasty treats.

- **Moving with Math**: Kindergarten – Get active & learn math concepts at the same time.

- **Math Maniacs**: First – Having fun learning all about math with number talks & Numeracy Projects.

- **Number Ninjas**: First – Increase your number sense & become mathematicians through games & small groups.
Math

- **Sassy Salsa**: Second – Learn measurement, sequencing, following recipes, as well as other skills related to cooking with math in the context of Spanish culture.
- **Tessellate & Create!**: Third – Discover mathematical patterns through tessellating and quilting!
- **Cooking with Math**: Fourth & Fifth – Learn measurement, sequencing, flowing recipes as well as other skills related to food preparation.
- Chess Club
- Jr. BETA Club
- Odyssey of the Mind
- Student Council
- Mathletes
- Tennis Club
- WHES Crew
- Hornet Helpers
- Shelf Elves
● Atlanta History Museum
● Fernbank Science Center
● Georgia Aquarium
● Local Food Bank
● Legoland
● Center of Puppetry Arts
● Ocmulgee Indian Mound
● Cubihatchi Nature Center
● Walking Tour of Hampton
● Behind the Scenes Tours of Local Restaurants
● Plays at Henry County Performing Arts Center
● Singing Events at Hampton High & Christmas Parade
● Yule Forest
PROJECT-BASED LEARNING

- Significant Content
- Need to Know
- Driving Question
- Student Voice & Choice
- 21st Century Competencies
- In-Depth Inquiry
- Critique & Revision
- Public Audience

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**LESSON PLAN TEMPLATE**

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<thead>
<tr>
<th>STEAM Station</th>
<th>Name of Station</th>
<th>Graphic</th>
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<tbody>
<tr>
<td>Facilitator</td>
<td>Beginning Date:</td>
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<tr>
<td>Target Audience</td>
<td>No. of Students:</td>
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<td>Course Description</td>
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<td>Project Assessment</td>
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<tr>
<td>Artifact/Evidence</td>
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</tbody>
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### Weekly Plan

- **Week 1**
- **Week 2**
- **Week 3**
- **Week 4**
- **Week 5**
- **Week 6**
- **Week 7**
- **Week 8**

- **Plan & then plan some more.**
- **Over-planning is a good thing!**
- **Being prepared is essential.**
- **Be ready for your students, and they will be ready for you.**

*The Classroom Management Book*, Wong & Wong, 2014
RESOURCES

Engineering is Elementary

Paws in Jobland

Personalized Learning, Henry County Schools

*Project-Based Learning*, Buck Institute

*The Classroom Management Book*, Wong & Wong, 2014

Typing Pals
“Ships are safe in the harbor, but that’s not what ships are for!”

William Shedd
FULL STEAM AHEAD

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