**WHAT’S HAPPENING IN STEM CLASS?**

*In Kindergarten*: Students use technology through Ozobots to create sequence stories, matching alphabets, and number recognition. iPads and laptops are used on Code.org, Code Spark, and Scratch Jr.

*In 1st Grade*: Students engage in hands-on exploration of entrepreneurship skills through The Creek’s farm as they are the primary caregivers for our farm animals. Collaborative activities include: designing the chicken coop using the Engineering Design Process and using math analysis to determine when the eggs will hatch.

*In 2nd Grade*: Students are learning to code stories on Scratch Jr. and make them come to life through the characters’ actions. Students are able to demonstrate these skills by using ozobots.

*In 3rd Grade*: Students enjoy using Lego WeDo Robots to build both dinosaurs and recycling trucks. They are also regularly using their knowledge of the Engineering Design Process to plan and build their own creations.

*In 4th Grade*: Students are using the CER model (Claim, Evidence, Response) to immerse themselves in historical lessons using inquiry-based thinking. They design and build things such as Indian tribe homes while taking into account constraints such as material supplies and environmental conditions.

*In 5th Grade*: Students are having an Immigration Simulation on Friday October 11th in order to understand what it was like for immigrants when they emigrated to America. iPads are also used daily to integrate coding, Ozobots, and more.
There are 10 baby chicks for sale—$5 each. Raffle tickets $1 each to win a dozen eggs.

YEAR LONG GRADE LEVEL STEM PROJECTS:

Kindergarten – Growing Gardens
First Grade – Chickens
Second Grade – Forces at Play
Third Grade – Recycling-Reducing Your Carbon Footprint
Fourth Grade – Outer Space
Fifth Grade – Augmented Reality and Technology

Schoolwide Volunteers
If you are interested in volunteering for serving on our STEM Advisory board or assisting in grade level projects, please contact Sarah Anthony to coordinate with the grade levels.

**STEM Notes from Our Principal, Mrs. Martin**

“What STEM means to MAES is that our Wolf Cubs collaborate and communicate ideas and solutions with peers using critical thinking, creativity, and logical reasoning.”

**More from this interview as well as Robotics team interviews and information about our new AdvanceEd certification will be included in our next newsletter... compliments of the All Girls Coding Club.**

Additional STEM questions may be directed to:
MRS. SARAH ANTHONY
MAES STEM Teacher
2017-18 MAES Teacher of the Year
sarah.anthony@dcssga.org

STEM DONATIONS / REQUESTS

The following grades need the following items for upcoming projects. Please help if you can.

- **Kindergarten** – bags of potting soil, small plastic shovels, various sizes of plastic cups (like Solo cups), jumbo and regular-sized popsicle sticks
- **First Grade** – cardboard pieces, toilet paper and paper towel tubes, empty (dry) water bottles, and white paper plates
- **Second Grade** – things to build and tinker with, Ipad
- **Third Grade** – plastic bottles and caps, popsicle sticks, pipe cleaners, string, rubber bands, cardboard boxes, aluminum foil and bottle caps, marbles, masking or painter’s tape, old CD’s, battery operated tea lights or glow sticks, STEM supply organizers
- **Fourth Grade** - masking tape, popsicle sticks, pipe cleaners, cardstock, aluminum foil, clorox wipes, tissues
- **Fifth Grade** – 20 packs of clay in earth tone colors, popsicle sticks, tempra paint (red, orange, dark green), toothpicks, cardboard drink flats, cotton balls, sand, bags of rock pebbles, plastic toy army men

**STEM:** chenille sticks (yellow or beige), beads (fall colors), colored markers, pencils

All Girls Coding Club

Congratulations to our new members for the 19-20 school year:

Sam Thornton, McKenzie McDonald, Ava Pierce, Aubrey Williams, Anaya Mathurin, Kaleigh Dowdy, Miriam Wright, Ashlynn Horton, Kamila Herrera, Alivia Mitchell, Kennedy Godwin, Denisse Holloway, Megan White, Avery Barker, River Griswold, Whitney McMichael

And, thank you to our returning members:

Bella Hamm –Lauren Ross
Grace Brindley – MaKenna Martin – Karla Herrera

The club is sponsored by Mrs. Lorrie Sprayberry and meets two times per month. The MAES All Girls Coding Club introduces its members to a wide variety of careers in computer engineering and computer science while exploring concepts such as syntax, sorting, binary code, loops, and much more. The learning environment is one that is fun and exciting! The club is also publishing the STEM newsletter this year and partnering again with the University of West Georgia’s Chapter Association for Computing Machinery – Women in Computer Science.