



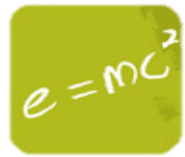
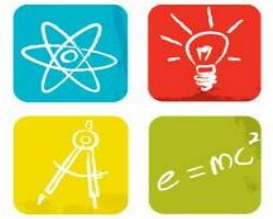
# R. E. MCNAIR DISCOVERY LEARNING ACADEMY

APRIL 2015

PARENT MEETING



# What does STEM stand for?



**S**cience



**T**echnology



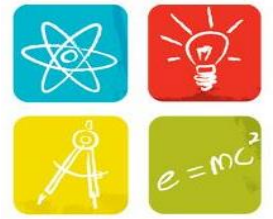
**E**ngineering



**M**ath



# What is STEM?

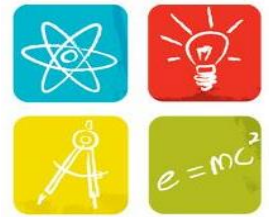


- A “**meta-discipline**” that infuses Science, Technology, Engineering, and Math
- STEM Education attempts to **transform the typical teacher-centered classroom** by encouraging curriculum that is driven by problem-solving, discovery,

exploratory learning, and **require students to actively engage** in a situation in order to find its solution

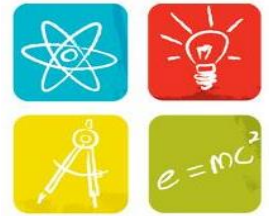


# Why STEM?



- ❑ Science, technology, engineering and math (STEM) are where the jobs are.
- ❑ STEM workers can expect higher salaries.
- ❑ The United States is failing to produce enough skilled STEM workers and thus is losing its competitive edge.
- ❑ American students aren't keeping up with students in other countries in math and science.
- ❑ The decline in STEM knowledge capital is reducing the basic scientific research that leads to growth and innovation
- ❑ Other nations are racing to establish dominance in STEM areas, costing Americans jobs and money.

# STEM in Georgia



## STEM SKILLS ARE IN DEMAND

In Georgia, STEM skills have stayed in demand even through the economic downturn.

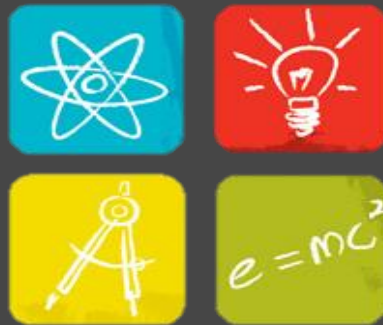
**STEM:**  
**2.0 jobs** for every  
**1 unemployed person**



**Non-STEM:**  
**4.5 unemployed**  
**people** for every **1 job**

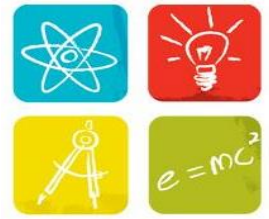


# WHAT DOES A STEM CLASSROOM LOOK LIKE ?





# STEM Classrooms

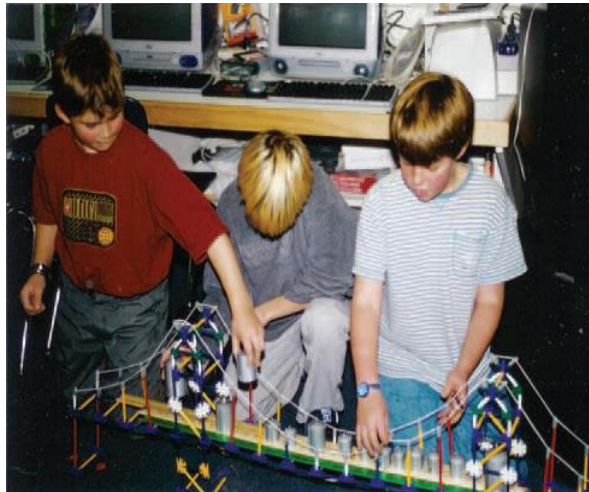


Robotics Team

Building Robots



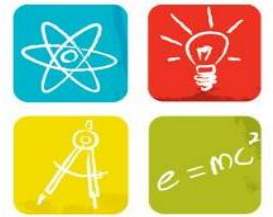
Constructing  
Bridges



Constructing  
Playground  
Equipment



# DeKalb STEM Vision

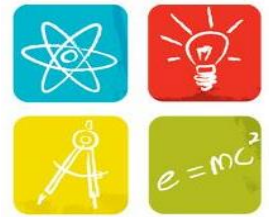


To be a leader in rigorous K-12 Integrated STEM Education that prepares students to meet the challenges of a competitive global society through innovation, collaboration, and creative problem solving.





# McNair D.L.A. STEM Goals



- **Create student-centered learning environments** that empower students to become innovators and technologically proficient problem solvers using an integrative STEM approach.
- **Engage partnerships with the community** that allow the school and businesses to connect with the goal of improving students' STEM-related career opportunities
- **Provide quality educational learning opportunities** via EIE kit experiences, field trips (out reach), and community partners and parental



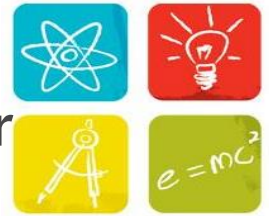
**DR. BOLDEN**



# What will the STEM Academy look like for the 2015 – 2016 school year?

- STEM classes will be located together on 1 hall.
- All STEM teachers have Gifted Certification
- The STEM Academy will function as accelerated classes

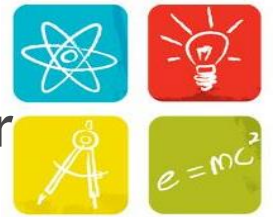
# McNair DLA STEM Plan for 2015-2016 school year

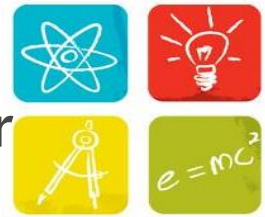


- Parents will receive field trip bundle packages
- A July Orientation session
- A separate STEM Academy schedule.



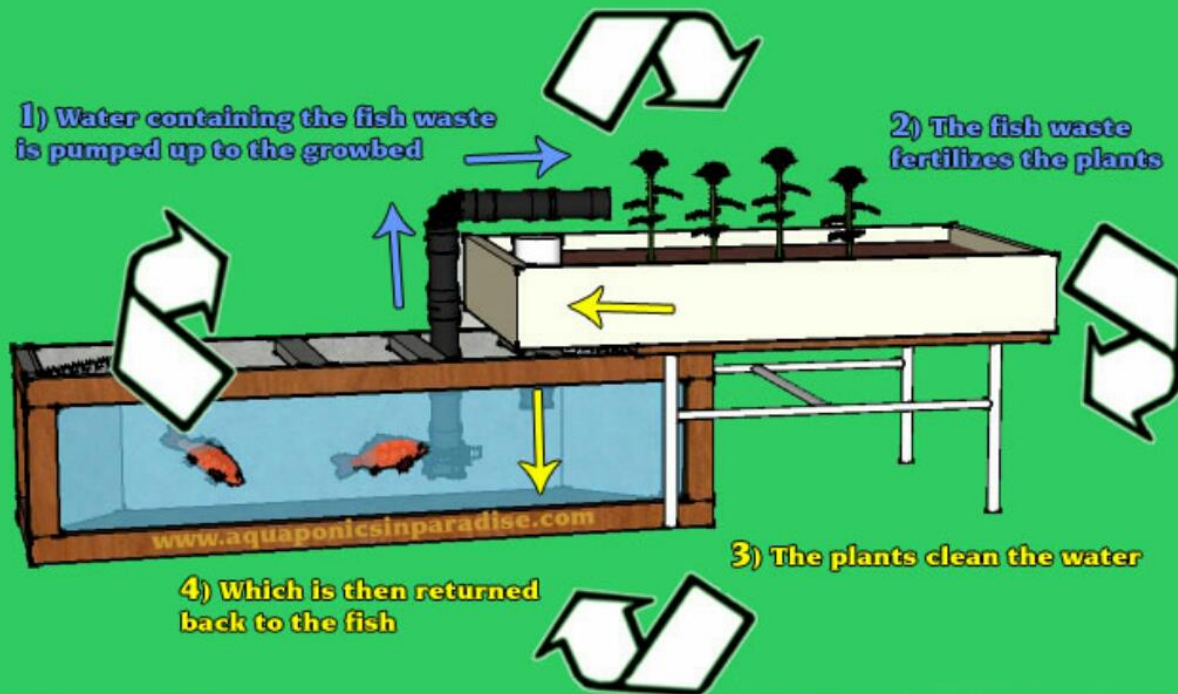
# McNair DLA STEM Plan for 2015-2016 school year





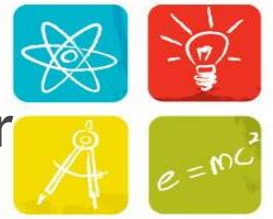
## Aquaponics

Aquaponics is a self-watering closed-loop system that uses fish effluent and plants in a complementing recirculating environment to grow vegetables at an accelerated rate.



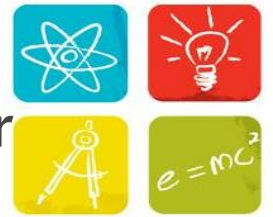


# McNair DLA STEM Plan for 2015-2016 school year





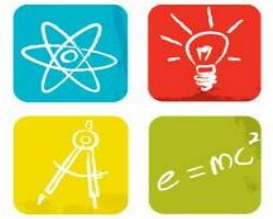
# McNair DLA STEM Plan for 2015-2016 school year



## We will be offering CODING



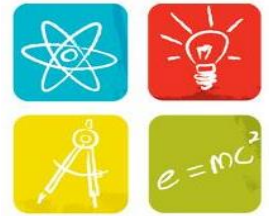
# STEM Materials



- **Please assist us with the materials need for our student STEM Projects.**



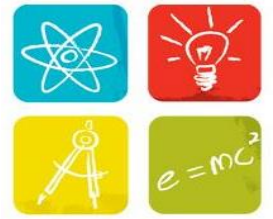
# Next Steps



- **Make sure you provide your email address.**
- Follow the school on FaceBook, Twitter, or Remind101 to get pertinent information.
- Login and sign in on the school STEM website.



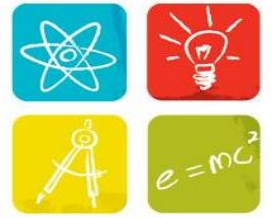
# Summer Information



- ❑ Field trips for the year information. Please adhere to the payment dates.
- ❑ Become familiar with your neighborhood library
- ❑ Please look into getting your student (s) computer access at home.



# Digital Summer Camp

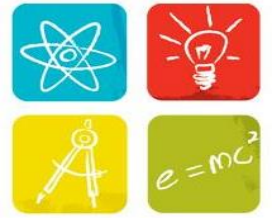


## Makers Camp with Google+

<http://makezine.com/maker-camp/>

**Kids.gov**

# Questions?





**THANKS FOR COMING!**

