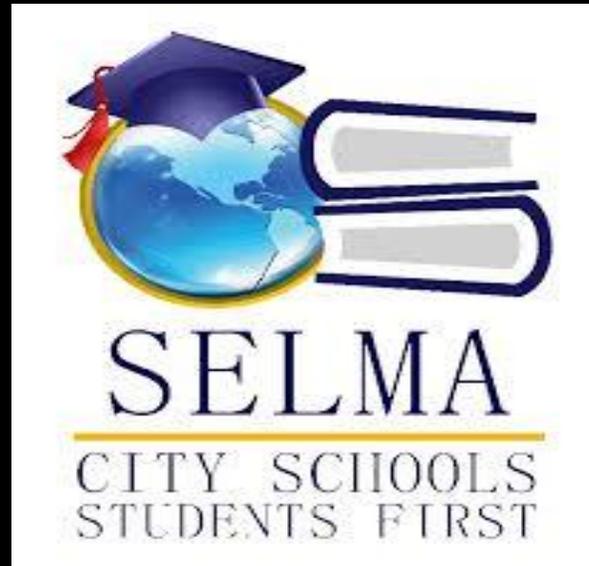


STEAM in the Black Belt



AASB Winter Conference
December 6, 2019

Welcome



Superintendent Dr. Avis Williams

OUR MISSION

The mission of the Selma City School District is to provide a safe and supportive teaching and learning environment, through the collaboration and partnerships of parents and community.

OUR VISION

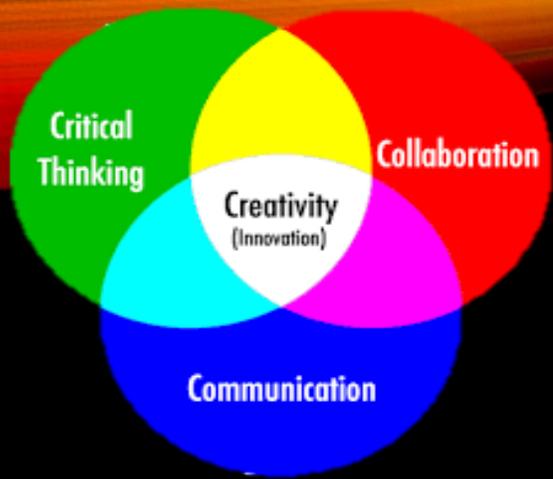
The vision of the Selma City School District is to be documented as a model school district where students are empowered through academic excellence to achieve success throughout life.

Mrs. Wooten

WHY IS IT
VITAL TO
DEVELOP A
STEAM
PROGRAM?

Anne Williamson



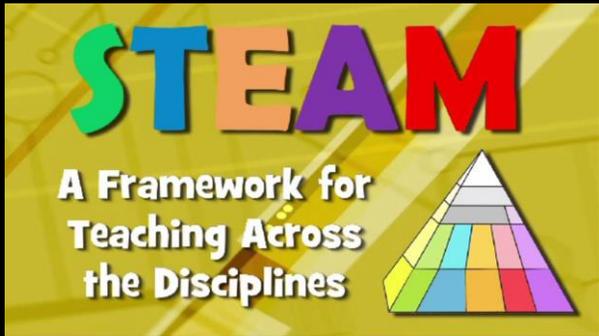


WHAT IS STEAM?

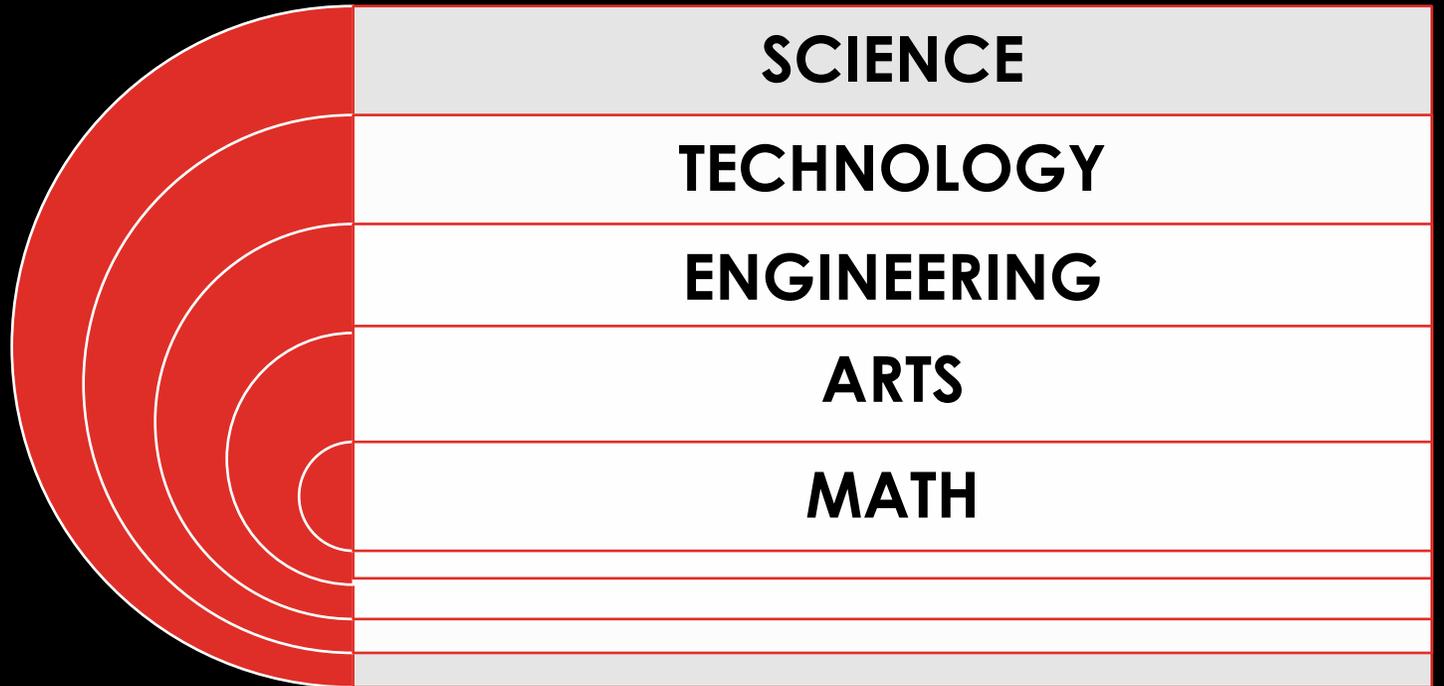
STEAM is an inquiry-based approach to education that emphasizes



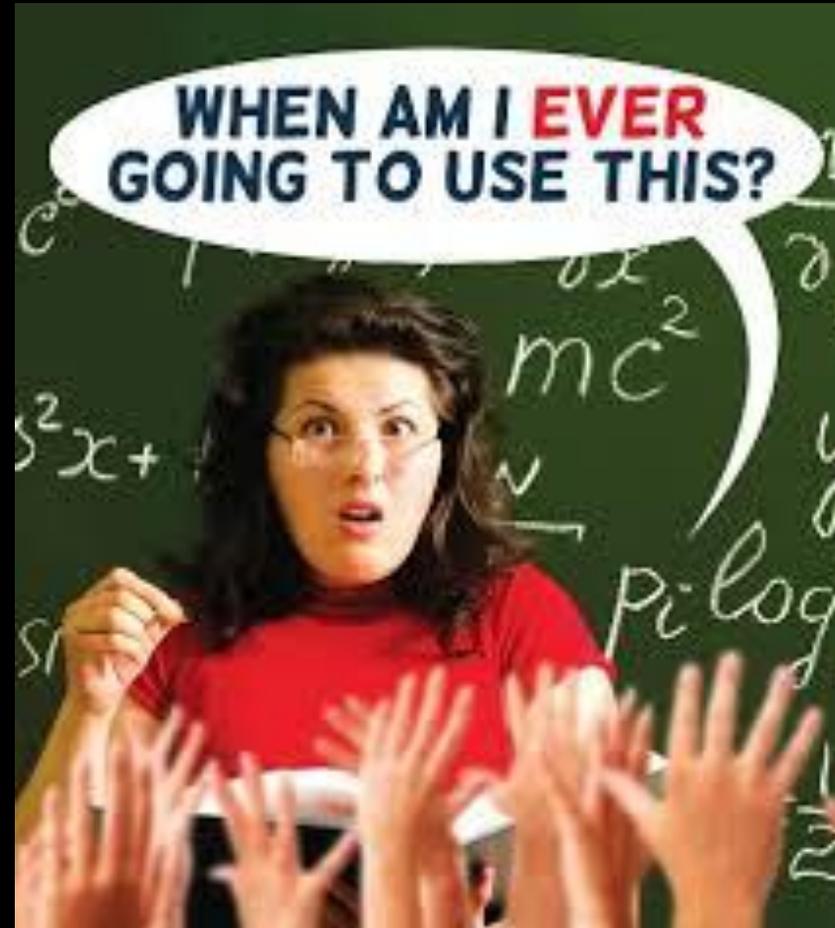
STEAM experiences involve two or more disciplines. These disciplines are not taught in isolation.



WHAT IS STEAM?



STEAM
ANSWERS THE
AGE-OLD
QUESTION BY
MAKING
LEARNING
RELEVANT!





WHY STEAM?



THANK YOU, PARTNERS!

International Paper Grants

University of Alabama

Wallace Community College of Selma & Michael Johnson
Foundation

Alabama Shakespeare Festival

Arts Revive

Links, Inc., Selma AL Chapter

Dr. Williams

FUNDING STEAM PROGRAMS

**Federal Funds
Grant Writing Team
Advancement in Technology Funds**



Mr. Simmons

TECHNOLOGY INTEGRATION

Infrastructure
Stakeholders Buy-in
Professional Development
1:1 Implementation

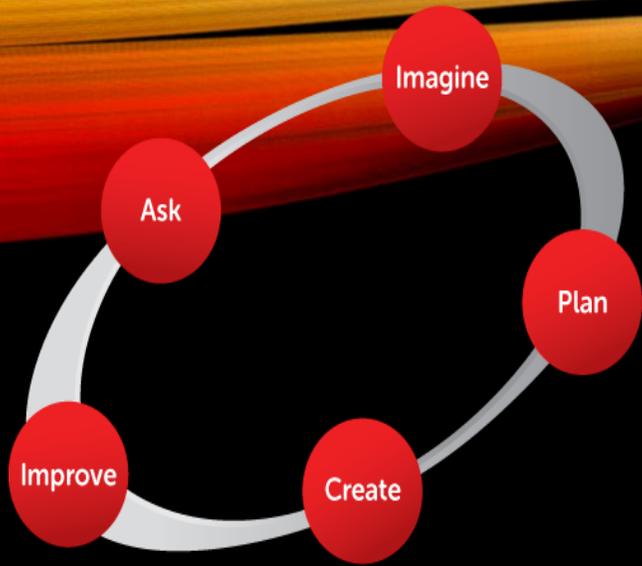


Anne Williamson



STEAM EDUCATION IN THE CURRICULUM

Dr. Williams



WHY STEAM?

Educational institutions prepare students to be college and career-ready for *current* careers.

Through STEAM, we are preparing students for jobs that *don't even exist* yet.

Scholars will be equipped with transferrable collaboration, problem-solving and critical thinking skills.



SELMA

CITY SCHOOLS
STUDENTS FIRST

STEAM Blocks in Elementary Schools

STEAM IN THE BLACKBELT



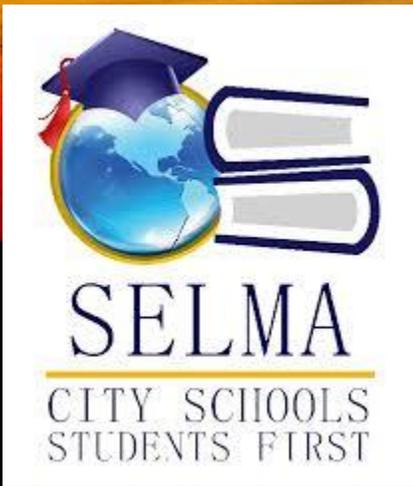
Sophia P. Kingston Elementary School @SophiaPKingston · Nov 2

The letter W is for WAFFLES!!! 🍩

Scholars in Ms. Latoya Jones-McCall's class made waffles from scratch to study the letter W. Of course, our scholars enjoyed eating them too! 🧡💙

[#StrongStartsMatter](#) [#StrongStartPrekatSPK](#)





STEAM Blocks in Elementary Schools

STEAM IN THE
BLACKBELT

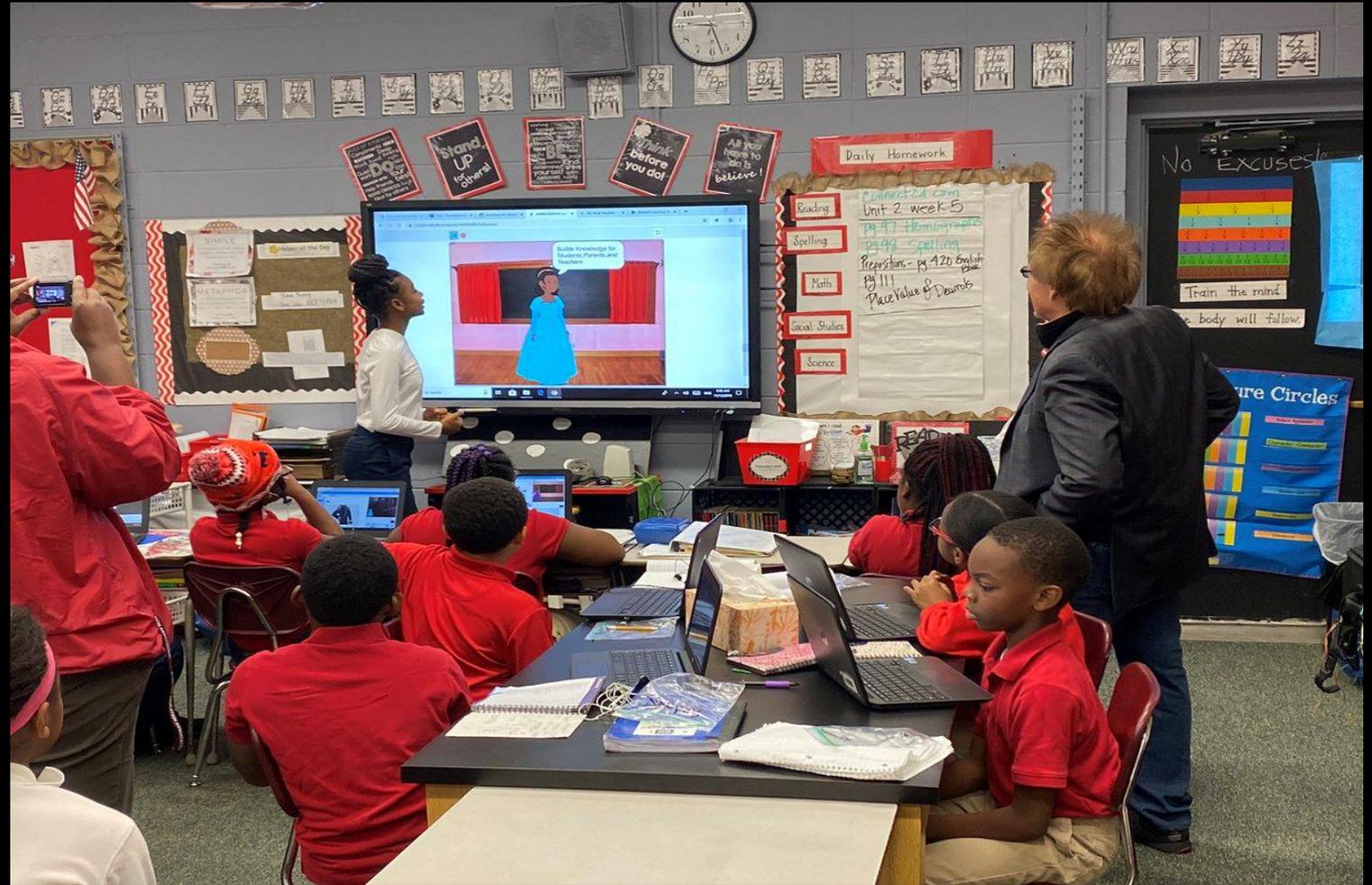




SELMA
CITY SCHOOLS
STUDENTS FIRST

ACADEMIES OF ACADEMIC EXCELLENCE

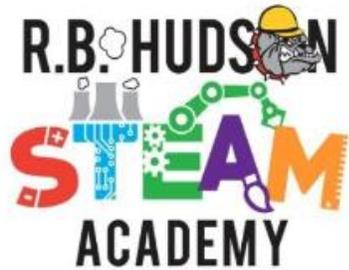
**PERFORMING ARTS
STEM
STEAM
SOCIAL JUSTICE
COMMERCE &
ENTREPRENEURSHIP
COLLABATORY**



IMPLEMENTATION

It is imperative that we facilitate learning environments that are

- *engaging
- *dynamic
- *relevant



Mr. Simmons

SO WHAT IS **THE PROCESS?**

The goal is to equip students with the skills they need to solve real-world problems.



THE PROCESS IS WHAT YOU HAVE TO DO **DAY IN AND DAY OUT** TO BE SUCCESSFUL.

NICK SABAN



Deep Level Questioning

Seek Innovative Solutions

Experiential Learning

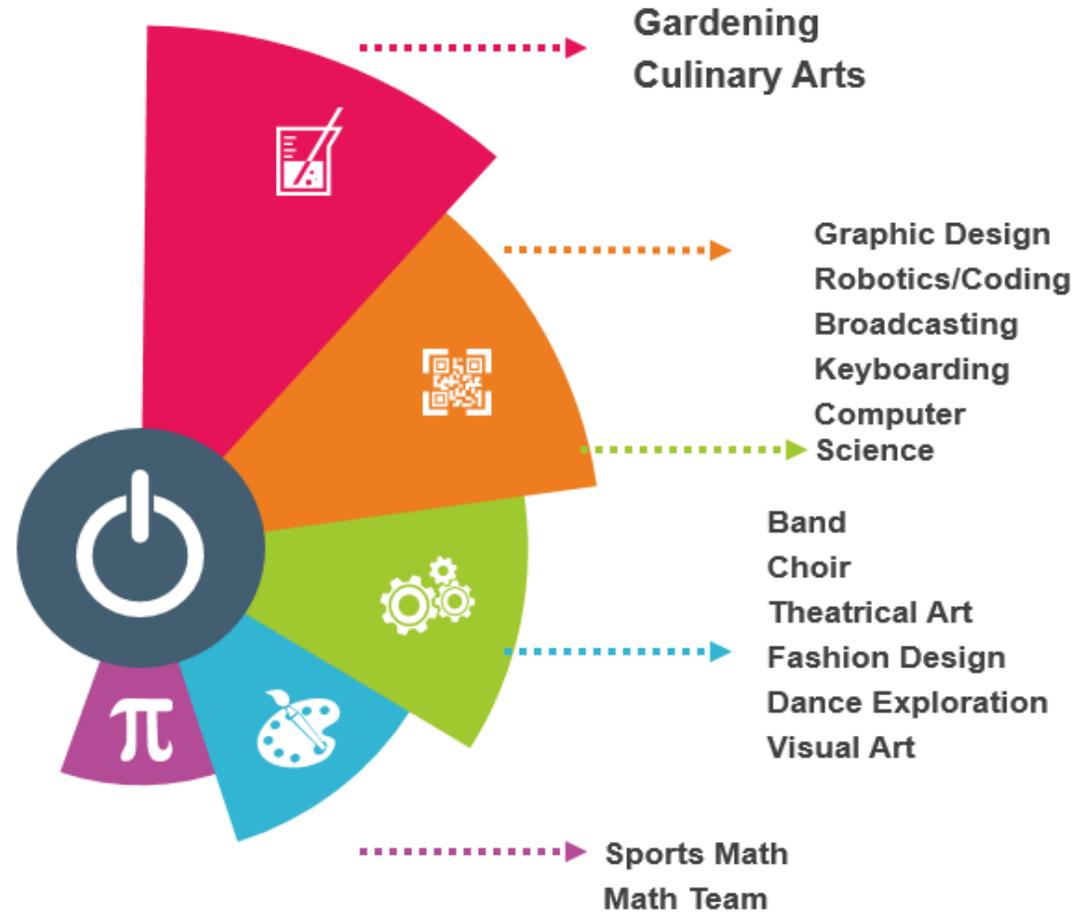
Problem Solving

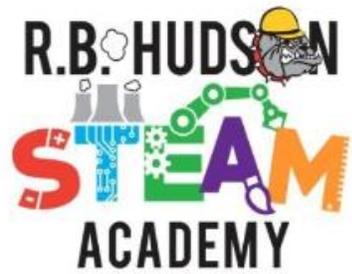
Teamwork



STEAM Connection

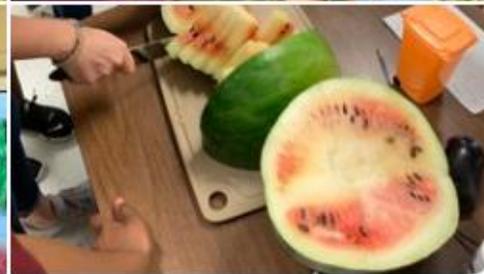
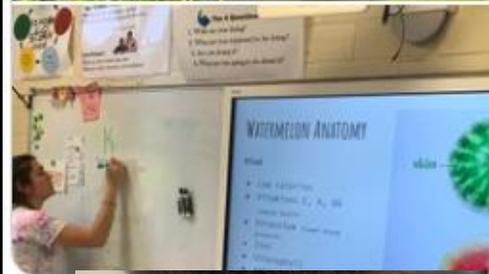
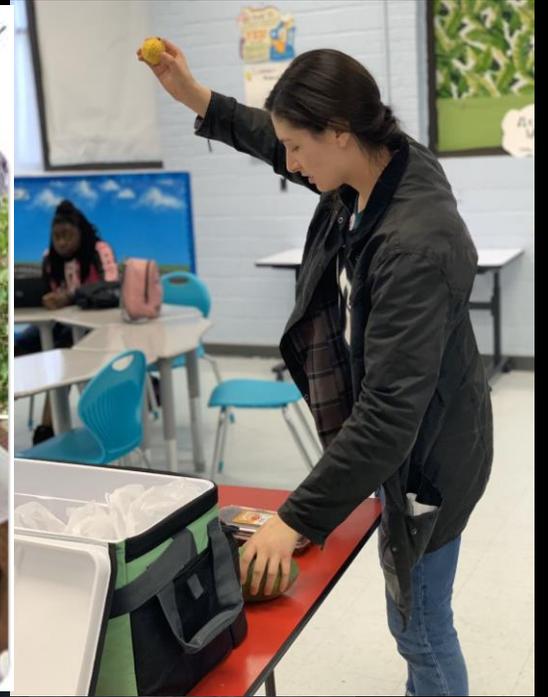
Hudson STEAM Academy

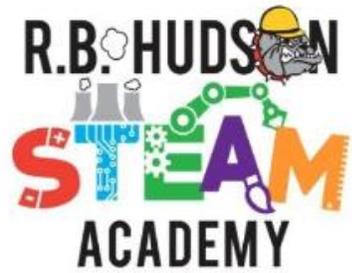




R. B. HUDSON STEAM ACADEMY

R. B. Hudson STEAM Academy @R_B_HUDSON · Sep 12
From the garden to the table! Watermelon Anatomy was quite a delight!
#STEAMing4Excellence #TeamSelma

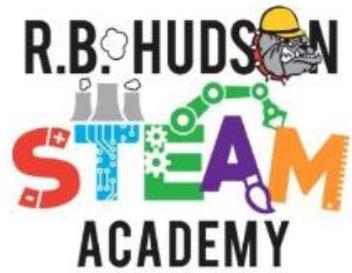




R. B. HUDSON STEAM ACADEMY

R. B. Hudson STEAM Academy @R_B_HUDSON · Sep 20
Fashion Designing on Friday STEAM Day! #steaming4excellence #TeamSelma

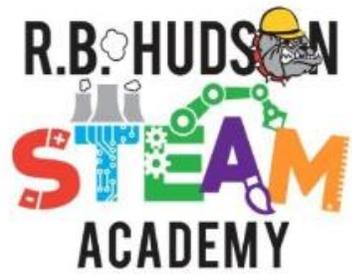




**R. B. HUDSON
STEAM
ACADEMY**

Maker Space



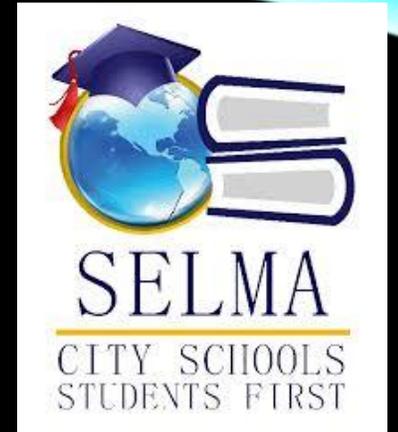


R. B. HUDSON STEAM ACADEMY

R. B. Hudson STEAM Academy @R_B_HUDSON · Sep 6
Our scholars participating in a theater workshop hosted by the Alabama Shakespeare Festival. #studentsfirst #TeamSelma #grateful #LionKing

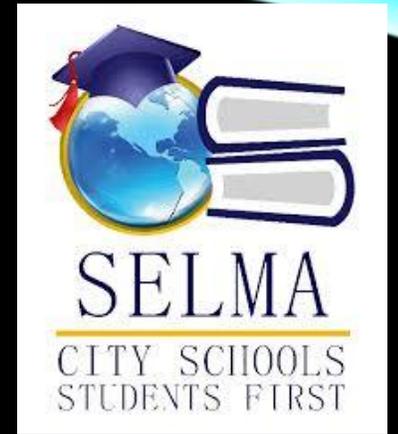


BEFORE GETTING STARTED



- Board Support
- True Collaboration – We have a STEAM Team!
- Strategic Plan Alignment
- Budget – Consider ALL Funding Sources
- Establish Needs – SWOT Analysis
- Involve Scholars and Families
- Determine Personnel/Professional Learning Needs

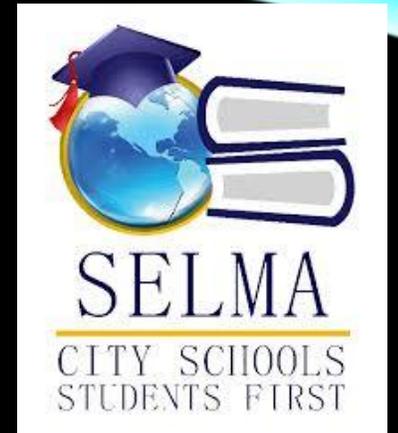
Dr. Williams



STEPS TO STEAM IMPLEMENTATION

- Researched STEAM
- Certification Process
- Professional development for teachers and administrators
- Site visits to STEAM/STEM systems
- Timeline developed
- Plan Implemented

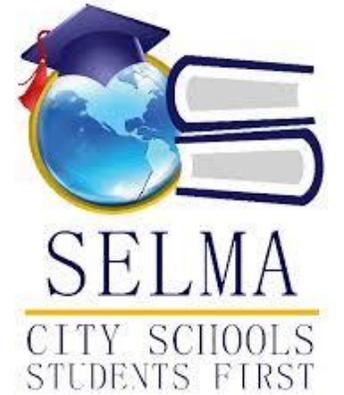
Anne Williamson



STEPS TO STEAM IMPLEMENTATION

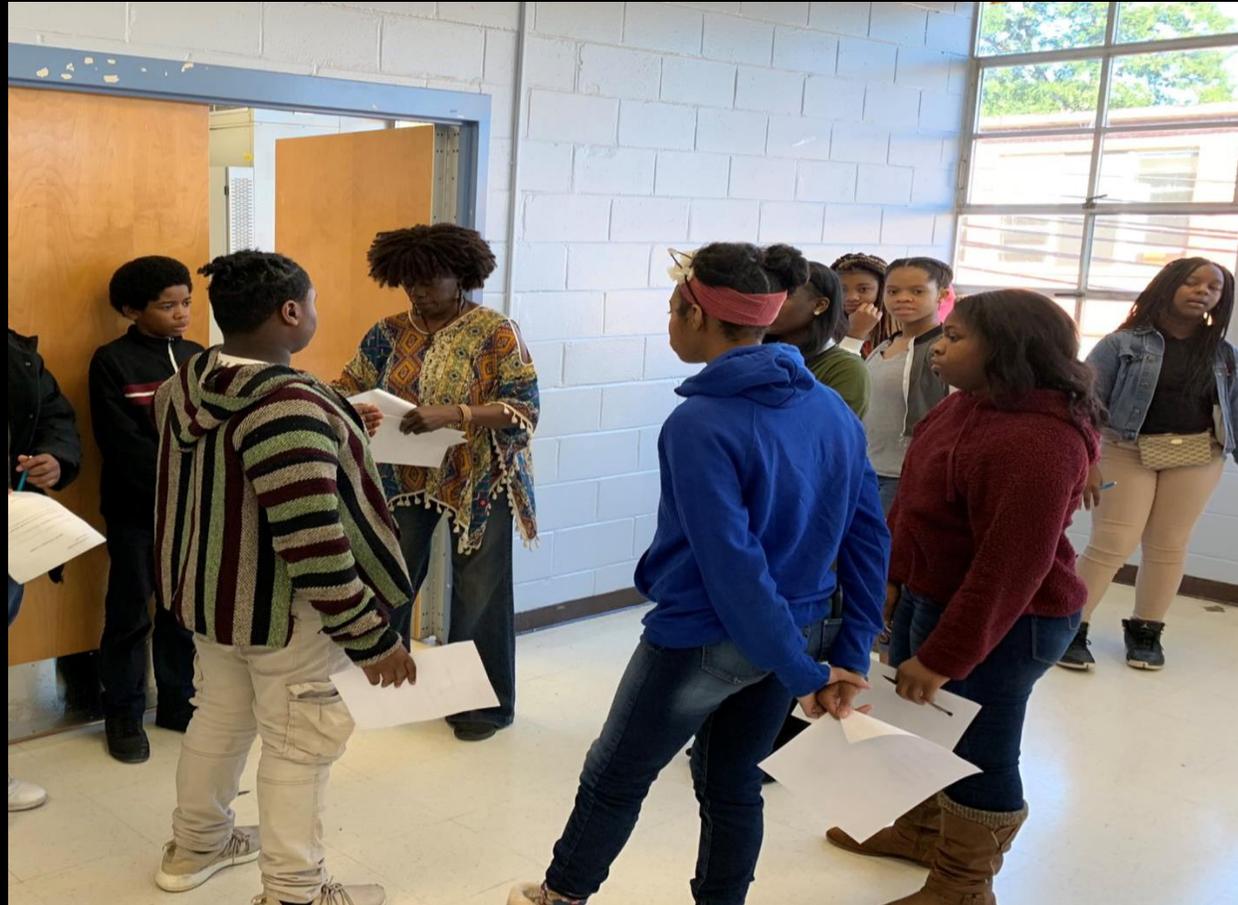
- Prototype Classrooms
- STEAM Specialist
- STEAM Teams - media specialists in all schools deliver instruction
- STEAM Implementation embedded in instruction in all schools
- STEAM Labs
- Maker-Spaces in all schools
- STEAM Days at R. B. Hudson
- STEAM Blocks in elementary schools
- Selma High CTE, E. Sports, Arts
- Culminating projects, Lion King, Jr. & School PBL

THE LION KING JR.



- STEAM in Action
- Disney Grant
- Community Partners
- New York Field Trip

Mrs. Wooten



RESULTS!!!



Innovators

Problem-solvers

Leaders

Life-long learners!

Mrs. Wooten

NEXT:
STEAM Workshop for Teachers!



Anne Williamson

VEX Robotics Coding
LEGO Robotics Coding
Breakout EDU
Drones
Maker Spaces
Embedding STEAM in Curriculum
3-D Printing
App Development
Resources

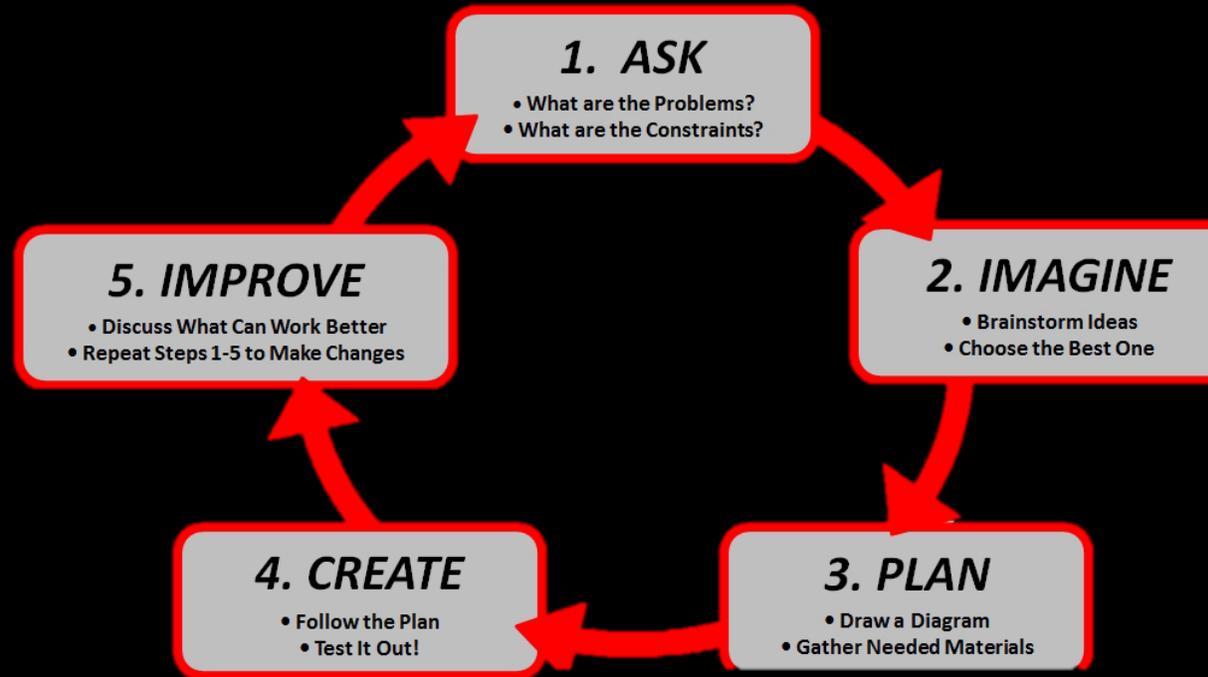


IT'S **YOUR** TURN!

STEAM Challenge!!!

Anne Williamson

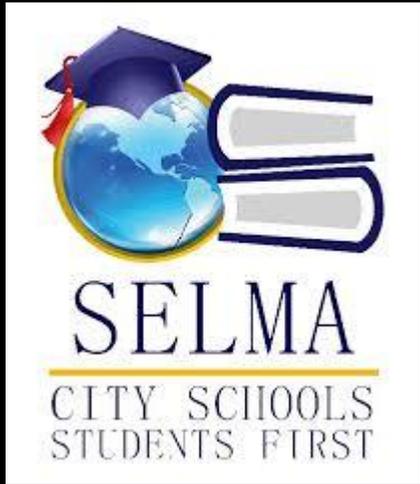
Engineering Design Process





STEAMING FOR EXCELLENCE!

**SCHOLARS will demonstrate STEAM
activities and share their
experiences.**



Thank you for attending

STEAM IN THE BLACK BELT

