

Girls of Color STEAM Academy

Jefferson County Public Schools

Jefferson County Board of Education
August 6, 2019

JCPS Students

- **51%** of color
- **67%** free and reduced lunch
- **25,000** +/- females of color



Disproportionate Data—African-American Females

Suspension Rate

14.2%

In comparison to white females:

4.3%

Enrolled in Alternative Behavioral Schools

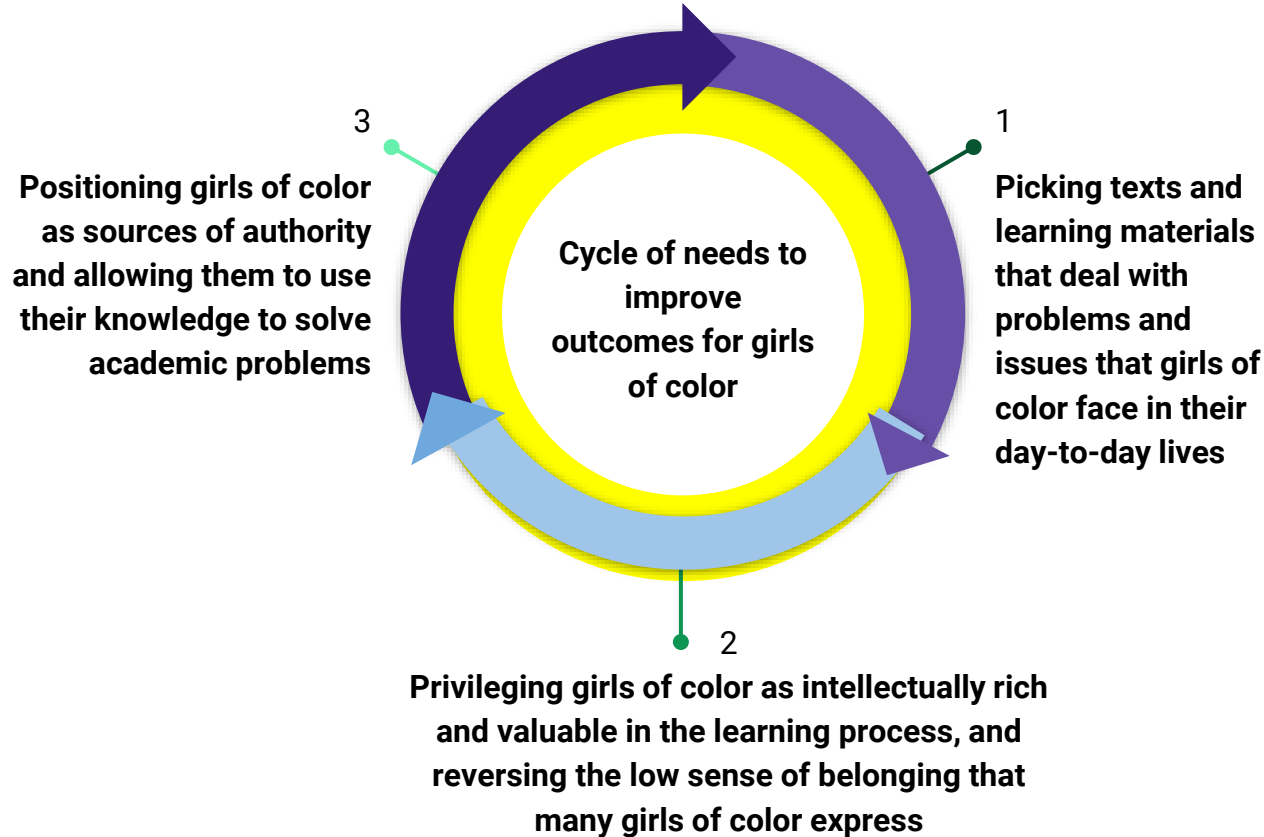
25%

In comparison to white females:

3%

(out of schools' total enrollment)

Picking, Privileging, Positioning



WHY STEAM?

(Science, Technology, Engineering, Arts, Mathematics)

- In 2016, white women earned **6,777** PhDs in STEM fields
- White men earned **8,478** terminal degrees
- Black women earning PhDs dwindle to **684—10** times fewer scientific doctorates than their white counterparts.
- With only **3.5%** of STEM bachelor degrees, Latina women face an even larger obstacle at breaking into the STEAM field

Estimated Budget (Year One)

General Fund: \$2,000,000

Title 1: \$60,000

STEAM: \$500,000





150

Six graders via application & lottery

With intent to build toward a 6th - 12th
grade academy

Gifted and Talented Education



- Build Relevance
 - Build Rigor
 - Build Relationships
 - Be Restorative
-

Afro & Gender-Centric



- History & Social Studies
 - English
 - Mathematics
 - Science
 - Engineering & Technology
 - Computer Science/Coding
 - Non-traditional Arts
 - Foreign Language
-

Staffing Year One

Administration:

Principal 1
Assistant Principals 2
Counselor 2

Teachers:

Teachers 6
Art 1
PE/Health 1
Librarian 1

Support Staff:

Mental Health Practitioner 1
Academic Instructional Coach 1
ECE Implementation Coach 1

Office Staff:

Secretary 1
Bookkeeper 1
Records Clerk 1
Clerk 1
In School Security Monitor 1



Exploratory Science



Technology



girls who

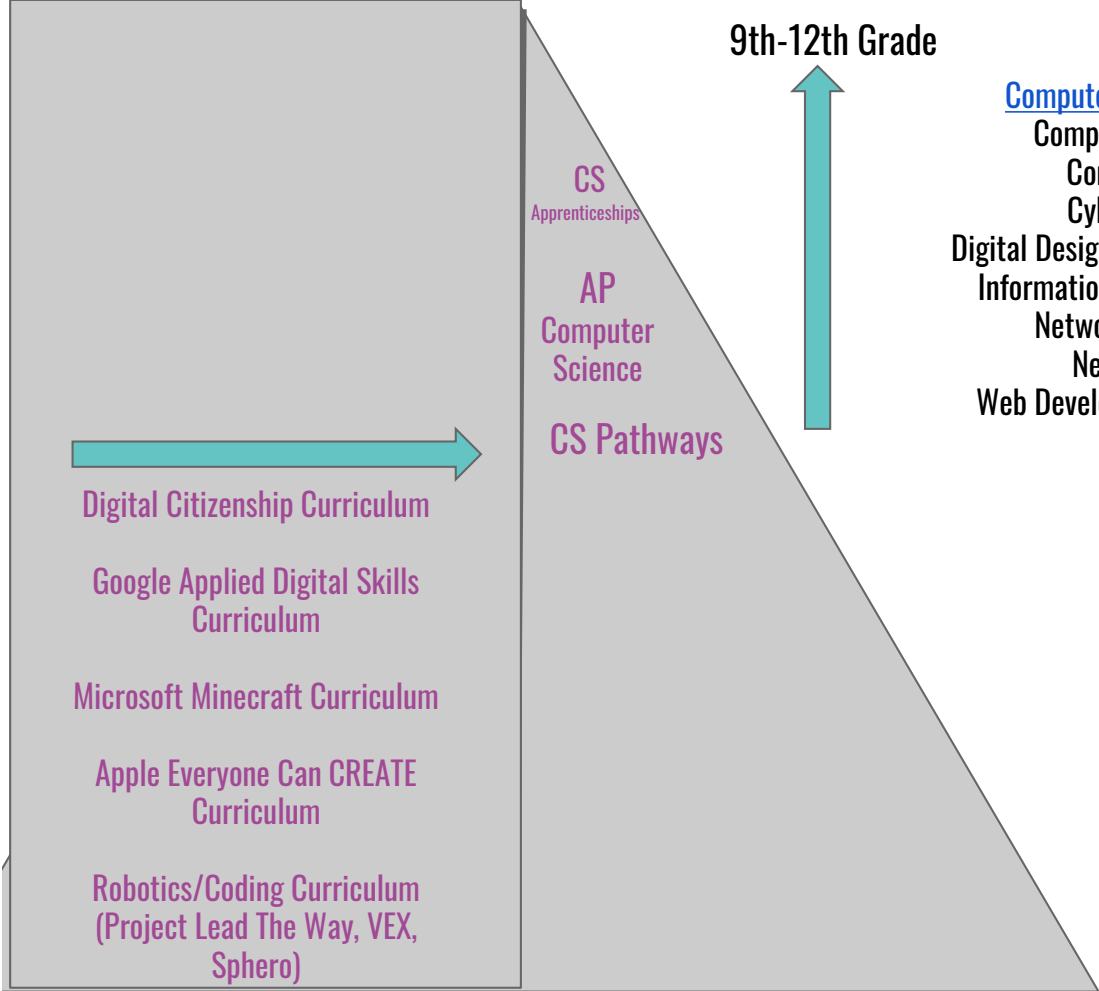
CODE

Digital Agility



Curriculum

6th - 8th
Grade



9th-12th Grade



- Potential
Computer Science Pathways:
- Computer Programming
 - Computer Science
 - Cyber Engineering
 - Digital Design and Game Development
 - Information Support and Services
 - Network Administration
 - Network Security
 - Web Development/Administration



[Design and Modeling](#)

[Automation and Robotics](#)

[App Creators](#)

[Computer Science for Innovators and Makers](#)

[Energy and the Environment](#)

[Flight and Space](#)

[Science of Technology](#)

[Magic of Electrons](#)

[Green Architecture](#)

[Medical Detectives](#)

Middle school is a time of exploration, a time when students are figuring out what they're passionate about today and how that relates to who they'll become tomorrow.

During this transitional time, PLTW Gateway's 10 units empower students to lead their own discovery. The hands-on program boosts classroom engagement and excitement, drives collaboration, and inspires "aha! moments" and deep comprehension. And as students engage in PLTW's activities in computer science, engineering, and biomedical science, they see a range of paths and possibilities they can look forward to in high school and beyond.

Engineering

Fully standards- and performance-based



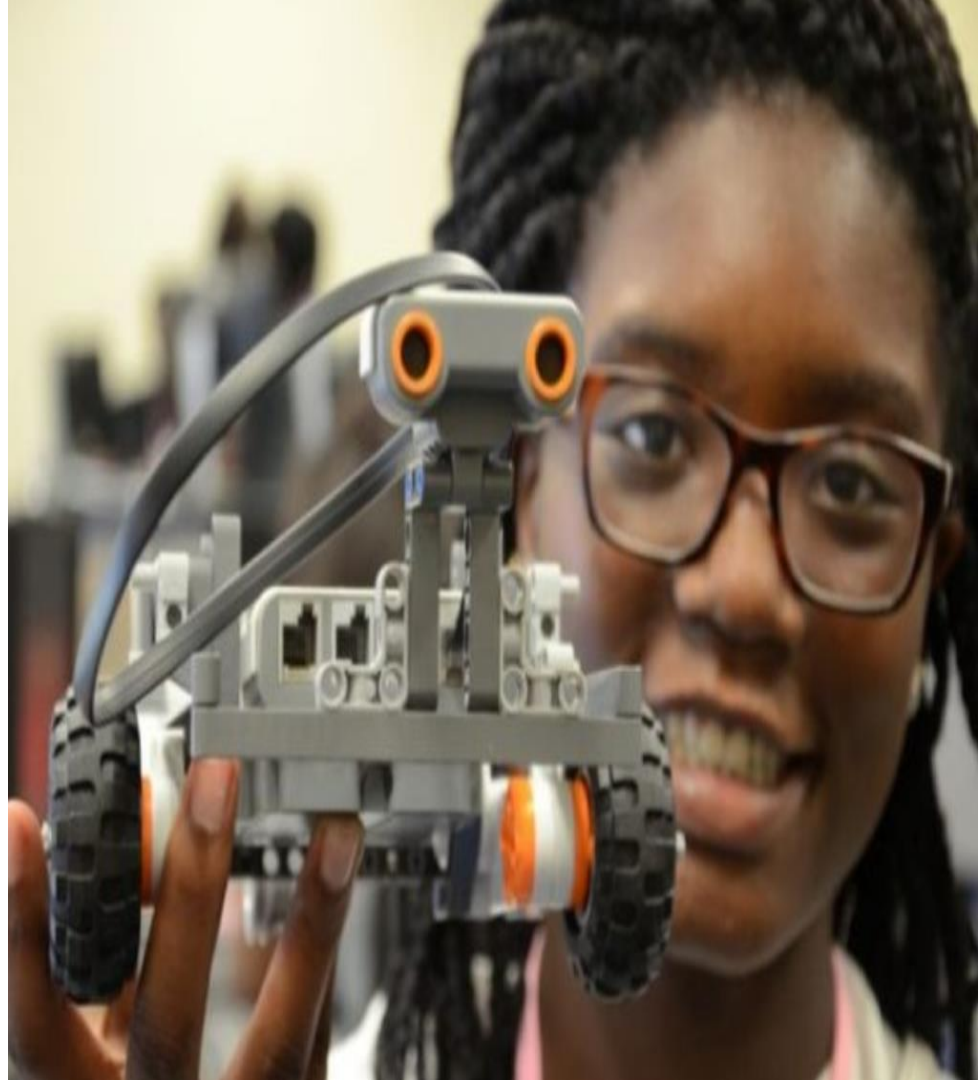
ART

- African and Caribbean Dance
- Hip-Hop
- African Art, paintings, etc.

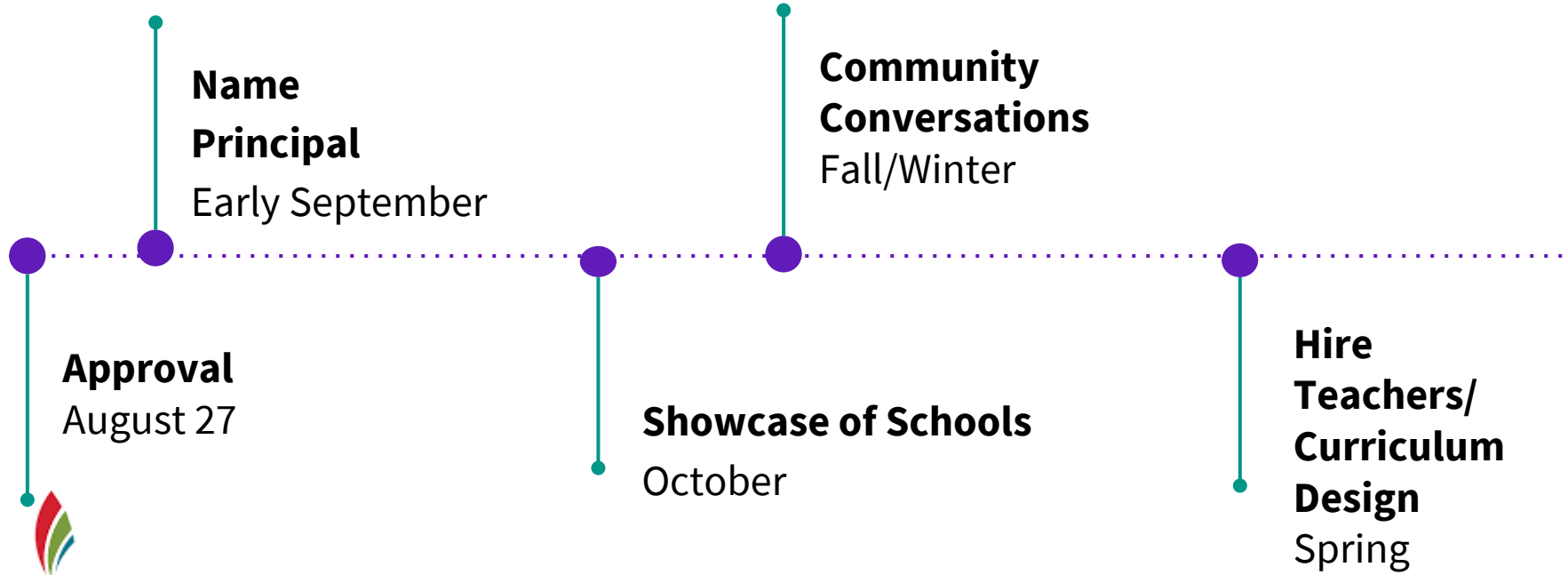


Math

By manufacturing



2019-2020 Proposed Timeline



- Can white students apply?
- Is there a community taskforce?
- Targeting teachers of color?
- Will transportation be provided?
- Is it a district wide magnet?
- Is there a tentative budget?
- Do we have time to start this school by August of 2020?
- Has this been filtered through the Racial Equity Analysis Protocol?
- Is it a program?

YES!

BOARD VOTE TO APPROVE

August 27th, 2019



Questions