



COOPERATIVE
STRATEGIES

COMPLETE FINANCIAL & DEMOGRAPHIC PLANNING FOR EDUCATION

 **Fulton**
County Schools

STEM SCHOOL (FAIRBURN)
COMMUNITY MEETING

SEPTEMBER 2018

ABOUT US

COOPERATIVE STRATEGIES, LLC

>25 years experience

>30 service lines

>2,000 School
Districts

>15 Billion in Bonds

48 States & D.C.
Experience

>300 Educational
Specifications

>300 Facilities Master
Plans

Backgrounds:
Education,
technology,
facilitation, and
management



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TODAY'S AGENDA

- | | |
|------------------------------------|--|
| 1. Overview | Overview & timeline |
| 2. Project review | Planning lab & business advisory meeting |
| 3. Small group discussion topic #1 | Local definition of success |
| 4. Small group discussion topic #2 | 6-12 opportunities |
| 5. Questions & answers | |

AGENDA ITEM

Overview

PROPOSED STEM SCHOOL (FAIRBURN) SITE



STEM SCHOOL (FAIRBURN)

PROJECT CHARACTERISTICS

6th-12th grades

Science Technology
Engineering Math
(STEM)

900 students

Healthcare

Technology

Athletics at
zoned
school

Extra-
curricular
activities

Attendance/
entrance
requirements
TBD

KEY COMPONENTS

STEM SCHOOL (FAIRBURN) CHARACTERISTICS



STEM FOCUS

- Engineering & Manufacturing
- Healthcare Science
- Information Technology



Business Partnerships



College & Career Readiness



Design Thinking

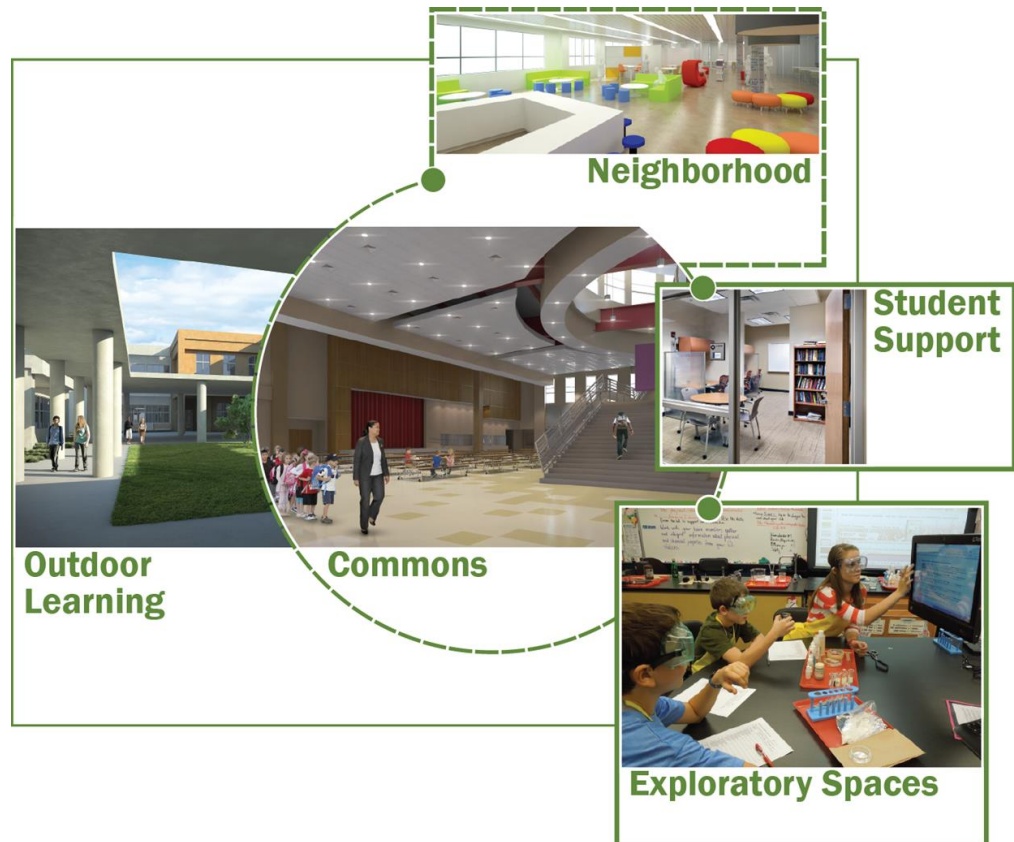
AGENDA ITEM

Project Review

DEFINITION

WHAT IS AN EDUCATIONAL SPECIFICATION?

Written communication from the owner or educator to design professionals, particularly the architect, **describing the current and future educational activities that the school facility should accommodate.**

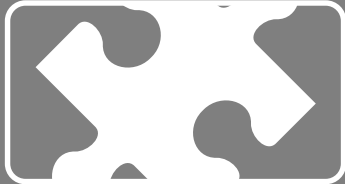


DELIVERABLES

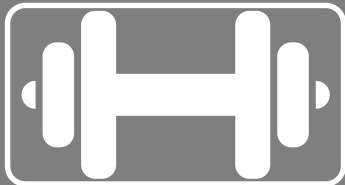
BUILDING BLOCKS OF THE SCHOOL'S DESIGN



List of the quantities, sizes, and types of learning environments suggested to support the school's program and vision



Visual models and descriptions of how those spaces should fit together to facilitate the school's program and vision



Description of the purpose, users and activities designated for each learning space and support space



Descriptions of aesthetics, safety & security, sustainability and other key design considerations

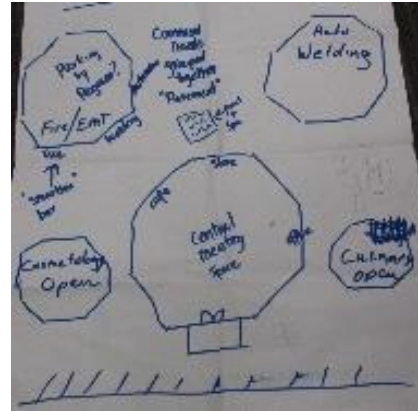
PROJECT REVIEW

BUILDING FROM YOUR VISION

Deconstructing the Industrial model

- factory model and independent collaborative model can be hybrid
- Structured process, set routine focuses on community NOT time to move away from one size fits all
- in younger grades students get Montessori, etc. + older students are boxed in
- we don't think about our spectrums because we focus on qualitative
- hard to get students (today) to buy into the traditional model
- out of the box communities promote some of the box learning + life

vision



sketch



diagram



model



design

PROJECT REVIEW

TIMELINE

Curriculum
Leaders
Interviews

Business
Advisory
Council

**Planning
Lab**

Community
Meeting

Board Meeting

CURRICULUM LEADERS INTERVIEWS

Susan Baker-STEM Director
Donna Barrett-Williams-STEM Director
Mark Elsey-CTAE Analyst
Tonya Eaton-Work Based Learning
Administrator
Dr. Chris Matthews-Assistant Superintendent
of Academic Support
Samiah Garcia-Coordinator of School
Counseling
Amy Barger-Assistant Superintendent of
Curriculum and Instruction
Shannon Flounory-Executive Director of
Safety and Security
Patrick Burke-Deputy Chief of Operations
Cliff Johns- Chief Academic Officer
Joseph Clements-Executive Director of
Facilities Services
Alyssia Wright-Executive Director of School
Nutrition
Sam Ham-Executive Director of
Transportation

Hoke Wilcox-Director of Instructional
Technology
Tim Maley-Coordinator of Virtual Learning
Marcus Vu-Program Specialist for Virtual
Learning
Chelsea Montgomery-Executive Director
Guidance, SSW, and Psychology
Doug Carey-Director of Architecture and
Engineering
Betsey Eppes-Coordinator of Fine Arts
David Vandewalker-Coordinator of
Performing Arts
Heather VanLooy-Program Specialist for
Instructional Technology
Michelle Easley- Program Specialist for
Instructional Technology
Kevin Robinson-Program Specialist for
Instructional Technology
Jamie Paterson-Program Specialist for World
Languages
Crystal Flowers-Director for Humanities
Tim Dunn-Director of Information Technology

BUSINESS ADVISORY MEETING

SEPTEMBER 10, 2018

Fulton County Schools

Business Advisors:

- | | | |
|------------------|--------------------|-----------------------|
| • Yalanda Bell | • Craig Lutz | Siemens |
| • Patrick Burke | • Tamara Pearson | Georgia Tech |
| • Melanie Conley | • Kat Reynolds | Mercedes-Benz |
| • Conrad Rogers | • Reginald Stewart | ESPA Inc. |
| • Kelly Hopkins | • Maya Taylor | South Fulton |
| | • Steve Teachout | Arrow Youth Council |
| | • Rorie Real | United Technologies |
| | • John Reed III | Brain STEM Schools |
| | • David Bickham | EECDC |
| | | Bickham Innovation |
| | | Center |
| | • Marcia Creed | ESPA. Inc. |
| | • Patrice Barlow | South Learning Center |
| | • Chariti Young | Automated Logic |
| | • Channelle Refuge | STEM Premier |

BUSINESS ADVISORY MEETING

SKILLS AND KNOWLEDGE BASE FOR NEW HIRES

- Ability to work with people different than themselves
- Advocate for self and others
- Analytical thinking
- Civic leadership
- Communication skills
- Computer savvy
- Creativity
- Critical thinker
- Customer orientation / advocacy
- Design thinking
- Humility
- Initiative
- Intergenerational fluency
- Iterative process orientation
- Not afraid to fail – courageous, learn from experiences
- Presentation skills
- Problem solving
- Resiliency
- Respect for all workers
- Self-awareness
- Sense of business perspective & detail
- Strong foundational skills
- Teachable
- Team player – collaborative mindset
- Transfer of skills from athletic teams to classroom collaboration to workplace
- Versatility (high E.Q.)
- Virtual natives (high comfort)
- Willingness to learn

BUSINESS ADVISORY MEETING

KEY ELEMENTS OF A COURSE TO PREPARE FUTURE EMPLOYEES

- Business culture
- Business fundamentals / creating a business plan
- Certifications
- Collaborative teaming
- Competency based problem solving scenarios
- Connection to real world industry & players connected to a real problem
- Customer skills
- Design thinking
- Entrepreneurial habits of mind
- Executive function
- Experience with 3D Design tools and animation technology
- Financial literacy
- Group work / collaboration
- Leadership skills for project management
- Presentation & progress reporting
- Problem solving – real problems
- Programming experience
- SWOT analysis
- Test design (measure success)

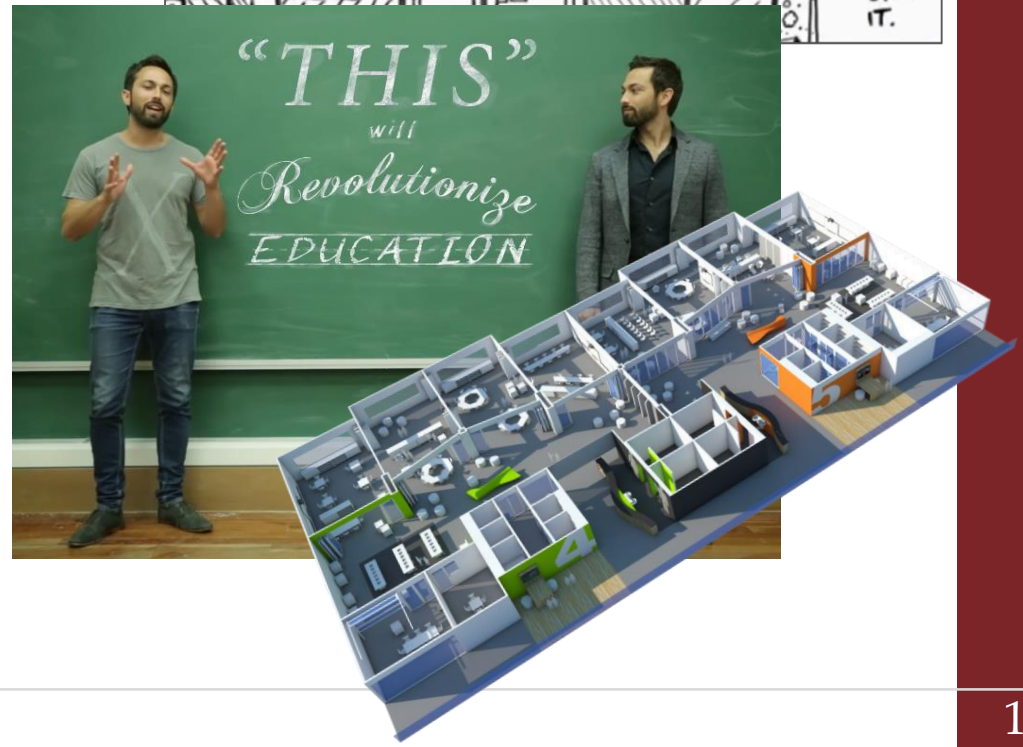
BUSINESS ADVISORY MEETING

ROLE FOR PARTNERING WITH THE STEM SCHOOL IN THE FUTURE

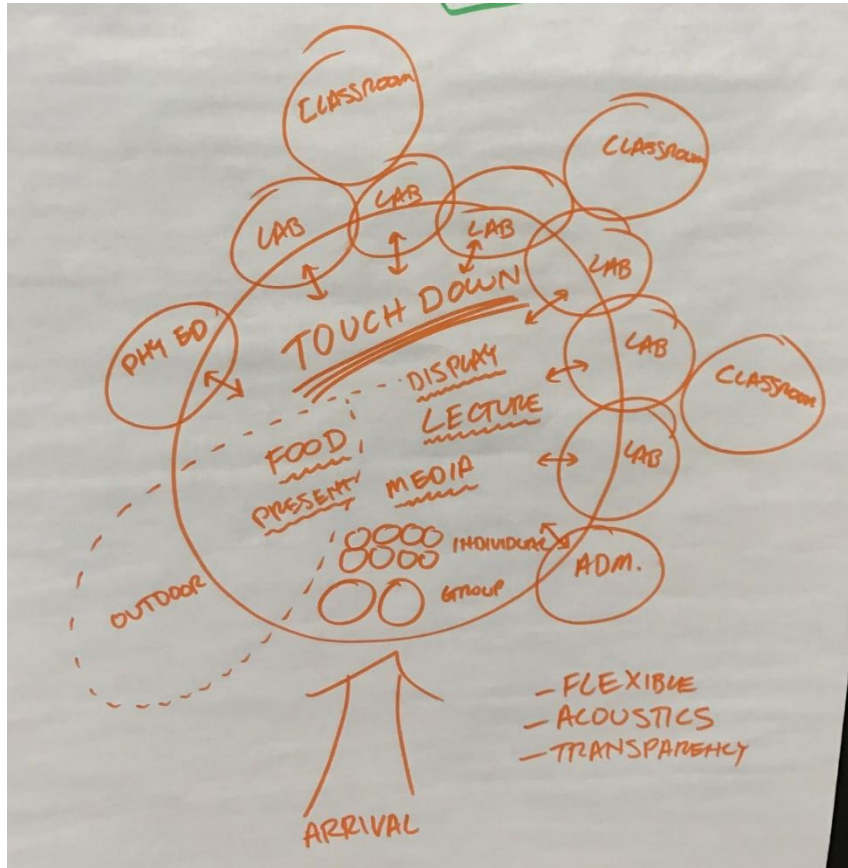
- Assist with design guidelines
- Assist with student leadership
- Building interest in industries
- Continue to refine needed skills
- Curriculum writing
- Grant writing / funding resources
- Mock interviews
- Partnerships
- Piggyback efforts in place by Junior Achievement, Destination Imagination, etc.
- Professional development
- Provide a platform to showcase skills and connect via pipeline to internships, etc.
- Provide futuristic challenge questions ("In 20 years, how will we solve X problem?"
- Research around educational neuroscience
- Sponsorships
- Wrap around services / Student support services

PLANNING LAB HIGHLIGHTS

- Design Thinking
- Visioning
- Deconstructing Industrial Model
- Time & Mastery
- Role of the Teacher
- Third Teacher
- Space Types
- Adjacency Illustrations



MULTIPLE USE SPACES

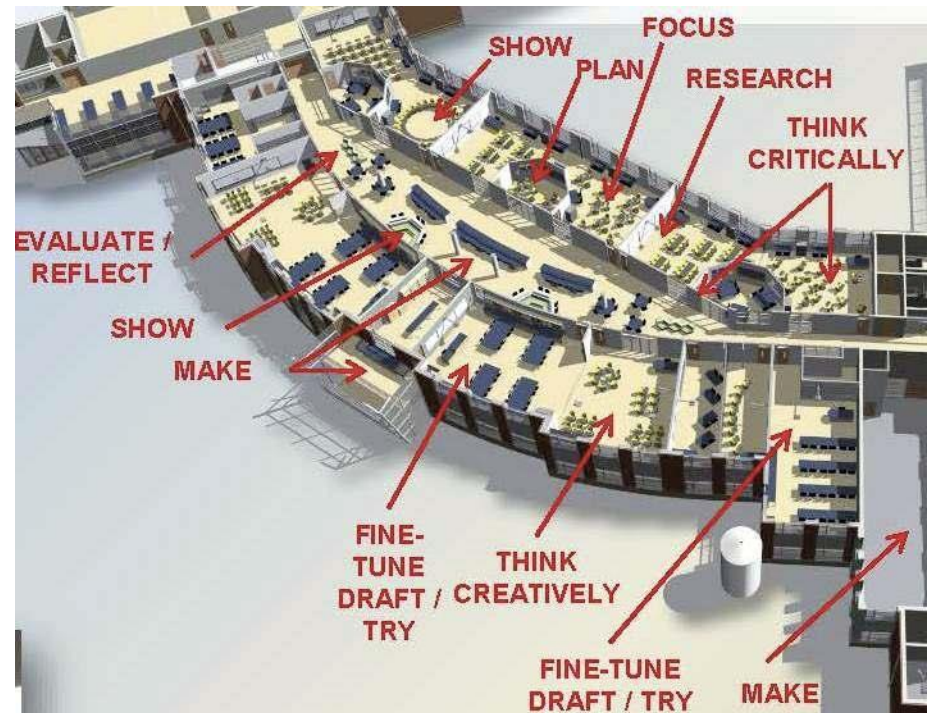


- ✓ Central space
- ✓ Combines functions of library, cafeteria, extended learning area
- ✓ Called the "Student Center" or "Touchdown" space
- ✓ Multiple lecture halls that allow for approx. 75 students at once



FLEXIBLE SPACES

- ❑ Individual / quiet work
- ❑ Small group work with visual supervision
- ❑ Breakout areas
- ❑ Mobile walls for flexible classrooms



TEACHERS, STAFFING & PROFESSIONAL DEVELOPMENT

- ✓ Teachers will share planning areas /collaboration offices
- ✓ Staffing this facility correctly is crucial for its success
- ✓ Professional development will be necessary



AGENDA ITEM

Small Group Discussions

SMALL GROUP DISCUSSION

TOPIC #1:



Define what a successful Fulton County STEM School is, including any community needs that are not being met currently which could possibly be solved with this program or facility.

SMALL GROUP DISCUSSION

TOPIC #2:



What academic, academic support, and building design opportunities can be gained by opening a STEM school that serves grades 6 through 12?

QUESTIONS & ANSWERS

NEXT STEPS

<http://www.fultonschools.org/en/SPLOST/Pages/default.aspx>

EXISTING CTAE PROGRAMS

MIDDLE SCHOOL



School	Pathways
Renaissance	Engineering Healthcare Science Graphic Design Marketing
Sandtown	Graphic Design Engineering
Camp Creek	Audio, Video, Technology and Film Graphic Design
Bear Creek	Audio, Video, Technology and Film Law and Justice Agriculture Science
McNair	Career Exploration Marketing
Woodland	Business and Computer Science Transportation
Paul D. West	Business and Computer Science Family and Consumer Science

EXISTING CTAE PROGRAMS

HIGH SCHOOL

School	Pathways
Benjamin Banneker	STEM Academy-Engineering and IT Healthcare Science-Patient Care
Langston Hughes	Graphic Design IT Healthcare Science Engineering
Westlake	Graphic Design IT Healthcare Science Engineering
Tri-Cities	Engineering Graphic Design
Creekside	Agricultural Science IT