STC Gifted Center

St. Clair R-XIII School District

SchoolsNEXT Competition

St. Clair Jr. High
Planning Team

**Student Members:**
- **Project Manager** - Myah Beeson
- **Architect** - Lilly Verrett
- **Landscape Architect** - Lilly Verrett
- **Facility Planner** - Ali Clark
- **Engineer** - Mattea Casey
- **Writer** - Myah Beeson
- **Interior Designer** - Myah Beeson & Ali Clark

**Mentor:** Steve Raskin of FGM Architects

**Community Members:**
- **School District Representative** - Dr. Kyle Kruse and Mrs. Nadine Aitch
- **Community Member** - Dawn Tedrick

"Committed to Excellence"
Define the problem: We don’t have enough room and/or the proper resources in order to reach our full potential in our current classroom.
Bond issue: A bond issue was placed on the June 2020 ballot. If passed! Now, it will allow the district to make upgrades and improvements. After the community and faculty forums last spring, a list of needs was developed.
## Background Information

### Community and Faculty Priorities:

<table>
<thead>
<tr>
<th>Entrance Security</th>
<th>HVAC</th>
<th>Weather Protected Auditorium</th>
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<tbody>
<tr>
<td>Traffic and Facility Safety</td>
<td>Roof Repairs</td>
<td>Athletic Facility Repairs</td>
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- Entrance Security
- HVAC
- Weather Protected Auditorium
- Traffic and Facility Safety
- Roof Repairs
- Athletic Facility Repairs
Brainstorming Solutions

The plan is to use, or renovate, an existing location that will no longer be needed for its current use.

Possible locations are:
- Wonder Bread Building
- Maintenance Building
- Auditorium
- Choir Room
- Band Room

Padlet Brainstorming
Classroom Inspiration Board
Existing Aerial View of Campus
# Plus/Delta

<table>
<thead>
<tr>
<th>Plus</th>
<th>Delta</th>
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<tbody>
<tr>
<td>● Large area</td>
<td>● Levels</td>
</tr>
<tr>
<td>● Stage</td>
<td>● No sink</td>
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<tr>
<td>● It could be used for other events (Scholar Bowl, Spelling Bee).</td>
<td>● We’d need to be very creative in making innovations.</td>
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<td>● Stage lights</td>
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<td>● It’s in the high school. Our high school gifted students could easily mentor us.</td>
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<td>● Easily accessible bathrooms</td>
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<td>● The auditorium is recommended by board members because there are no current plans.</td>
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Survey

We sent out a survey to gifted students in our school district regarding their educational needs and wants.

Students in grades 3-8 responded.
Check the items you need/want in your gifted center.

21 responses

- Sink: 16 (76.2%)
- Smartboard: 17 (81%)
- Projector: 17 (81%)
- Desktop Computers: 18 (86.7%)
- Robotics Tables: 9 (42.9%)
- Storage Room: 11 (52.4%)
- Work Bench: 11 (52.4%)
- Stage: 4 (19%)
- Greenscreen: 16 (76.2%)
- Desks: 14 (66.7%)
- Tables: 16 (76.2%)
- Flexible Seating: 14 (66.7%)
- Calming Corner: 13 (61.9%)
- Garden Area: 12 (57.1%)
- Patio: 1 (4.8%)
- Outdoor Workspace: 16 (76.2%)
- Science Lab: 17 (81%)
- Stress relievers: 1 (4.8%)
- Vr area: 1 (4.8%)
- Outdoor Workshpae: 1 (4.8%)
- Solar power area: 1 (4.8%)
- Designated practice areas: 1 (4.8%)
Needs:
- Sink
- Construction area
- Outlets for power tools
- Large sink for rinsing paint brushes and cleaning lab equipment
- Storage (a lot)
- Frig. (possibly a small kitchen for lunch and experiments)
- Flexible seating
- SmartBoard and Whiteboard

Wants:
- Kitchenette
- Conference Room/Area
- MakerSpace/Robotics Room
- Video Room/Green Room
- Large projection screen mounted on wall
- Conversation area/sitting
- Pavilion/Outdoor seating
- Partition Walls to have an open floor plan
Classroom Examples

Glass Wall for Natural Lighting

Flexible Seating for Collaboration
Makerspace Examples

Robotics~Sewing~Coding~Lego Animation~Crafts~MakeyMakey
Kitchenette Examples
Video Room and Performance Area Examples
Bubble Diagrams
Auditorium Renovation Proposal
Blueprint for Gifted Center
The Model

Recyclable Materials:

Computer Parts
Base Ten Blocks
CDs
Insulin Pods
Old Building Toys
Aquarium Plants
Pom Poms
Fairy Lights
The Model
Meeting the Needs of Gifted Students

Gifted students think differently and have intensities that other students may not exhibit. Intensities include: psychomotor, sensual, emotional, etc.

Some of our students are twice-exceptional, so we also address needs of students with Autism, ADHD/ADD, and Dyslexia.

We will meet these needs with flexible seating, spacious rooms, and a Calming Corner.
Healthy, Safe, and Eco-Friendly

Natural Lighting: One wall of our gifted center will be completely glass for natural lighting, though it will not fully extend to the bottom for safety reasons.

Safety: We will add sprinkler systems and fire alarms to take safety measures.

Eco Friendly Building Materials: We’ll use recycled plastic for our rooftop garden walls and patio.

Water Conservation: We’ll use dual flush toilets, greywater systems, water harvesters.
Inverted umbrellas in our rooftop garden will harvest water and solar energy while providing shade. The water will be used for the gardens and rooftop water feature.

Solar panels will be used to generate enough energy for the building. They will also function as a patio cover.
Rooftop Garden

**Eco-Friendly:** Our rooftop garden is an outdoor learning lab that will use plants to filter the air. We’ll plant fresh fruits and vegetables that we’ll use in our kitchenette.

**Safety Features:** The wall around the rooftop garden will be made from clear recycled plastic.

**Rainwater Harvester:** Water is collected with inverted umbrellas, filtered through a decorative water feature, and used to water plants. The umbrellas also collect solar energy.
This rooftop garden will include a thick external clear wall, benches and tables, a solid wall separating air conditioning from the garden, and continuous stairs from the existing stairs.

This green space indicates our rooftop garden.
Advanced Technology

We’ll use SMART surfaces and augmented reality in the classroom, a SMARTboard in the conference room.

Adding desktops in our MakerSpace will be helpful for video production, animation, and competitions.
Interior Design
Durable Construction Materials

Flooring:

MakerSpace/Construction: Textured poured epoxy

Conference/Kitchenette: LVT

Classroom/Conversation Area: LVT

Stage: Sand and refinish
**Furniture:** Vinyl and silicone bases with woven covers

**Performance area seating:** There will be couches and comfortable chairs surrounding the stage for audiences
Community Involvement

The community will be involved in our Gifted Center in many ways, including Jr. High Robotics Club, MakerSpace visits, and community Performances.

The conference room will also be open for public use.

Our rooftop garden will be also be available to students before and after school.
Questions?