"Committed to Excellence"



SIC Gifted Center St. Clair R-XIII School District

> SchoolsNEXT Competition

St. Clair Jr. High

Planning Team

Student Members:ComProject Manager - Myah BeesonSchoorArchitect - Lilly VerrettKrussLandscape Architect - Lilly VerrettComFacility Planner - Ali ClarkFacility Planner - Ali ClarkEngineer - Mattea CaseyWriter - Myah BeesonInterior 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

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PROBLEM

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.





Background Information

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:

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





Sustainable Living Inspiration Board







Existing Aerial View of Campus



AUDITORIUM TO GIFTED CENTER ST. CLAIR HIGH SCHOOL



Plus/Delta

Plus	Delta
 Large area Stage It could be used for other events (Scholar Bowl, Spelling Bee). Stage lights It's in the high school. Our high school gifted students could easily mentor us. Easily accessible bathrooms The auditorium is recommended by board members because there are no 	 Levels No sink We'd need to be very creative in making innovations.

Survey

Choose your grade.

23 responses



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

Students in grades 3-8 responded.



Survey

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21 responses

Needs and Wants

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





Conference Room Examples





Video Room and Performance Area Examples





Bubble Diagrams





Auditorium Renovation Proposal

Blueprint for Gifted Center



Google Sketchup-Interior Design



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.

Sustainable and Energy Efficient



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





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.

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.

Rooftop Garden

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





Adding desktops in our MakerSpace will be helpful for video production, animation, and competitions.

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





Interior Design Durable Construction Materials

Flooring:

MakerSpace/Construction: Textured poured epoxy

Conference/Kitchenette: LVT

Classroom/Conversation Area: LVT

Stage: Sand and refinish





Interior Design

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.



