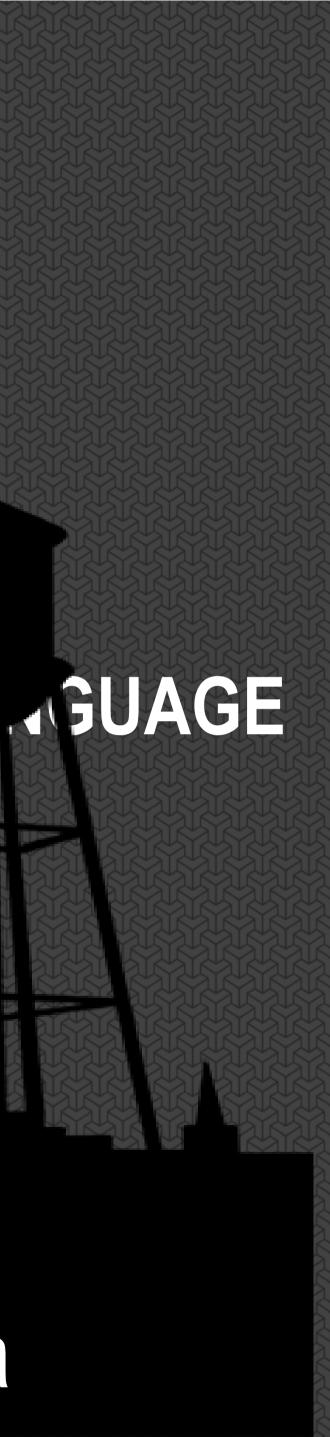


SUSTAINABILITY TECHNOLOGY ECOLOGY ENTREPRENEUPSHIP

Seth Allen - Mikal Ali - Mackenzie Giattino - Irene Tamba

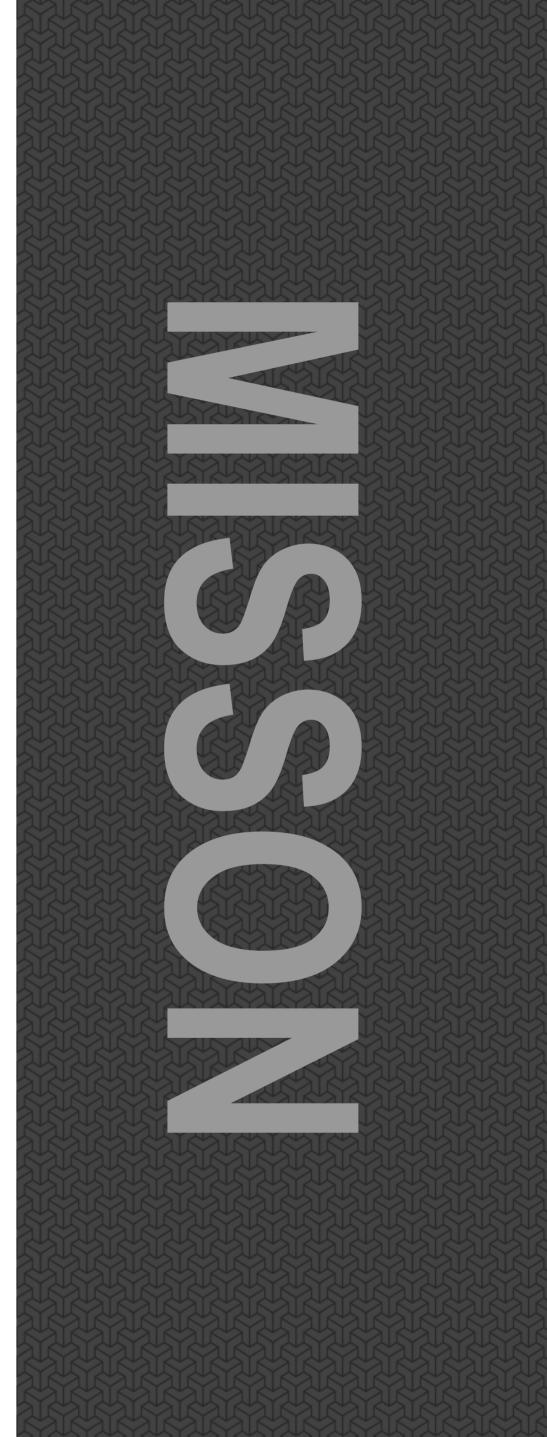


Building a strong foundation with community. DREAM EXPLORE CREATE EMPOWER



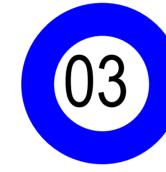


Our mission is to build a strong foundation for students to become change agents. We want to advance the right of every person to live in a socially, economically and environmentally healthy community.



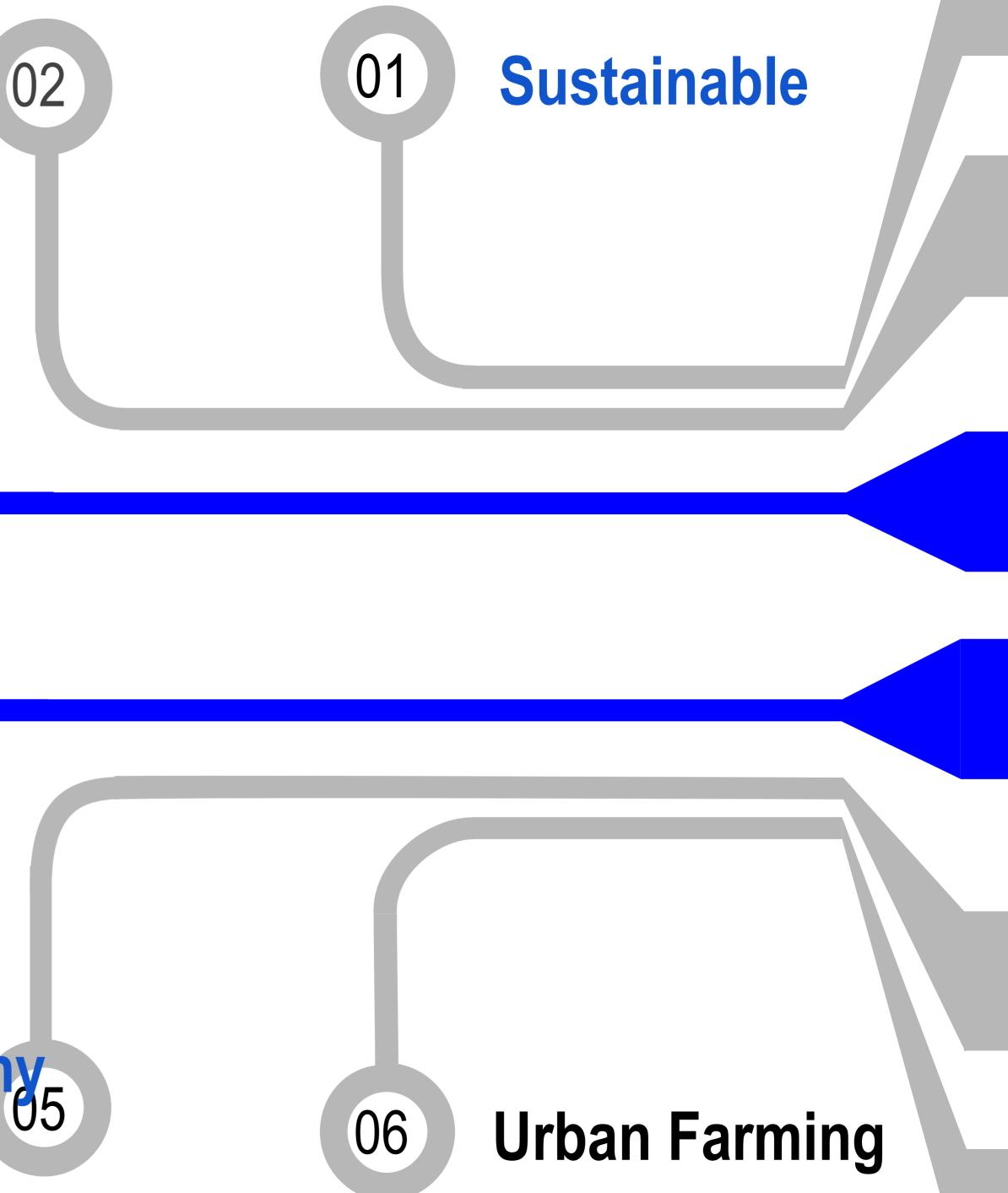
Community Engagement Hub (Public Space)

Unique Interactive Learning Space



Multipurpose Education4 Center

Mobile Farmer's Market & Healthy Cafe





ENGINEERING DESIGN PROCESS

DEFINE THE PROBLEM EXPLORED IDEAS

APPLY A SOLUTION

LOOK BACK AND LEARN

WHO DID WE TALK TO? WHAT WERE THE **PROBLEMS**?

- COMMUNITY MEMBERS • TEACHERS • PARENTS STUDENTS • UNIVERSITY SCHOLARS
- FOOD
- ACCESS TO JOBS SPACE

PROBLEMS & SOLUTIONS

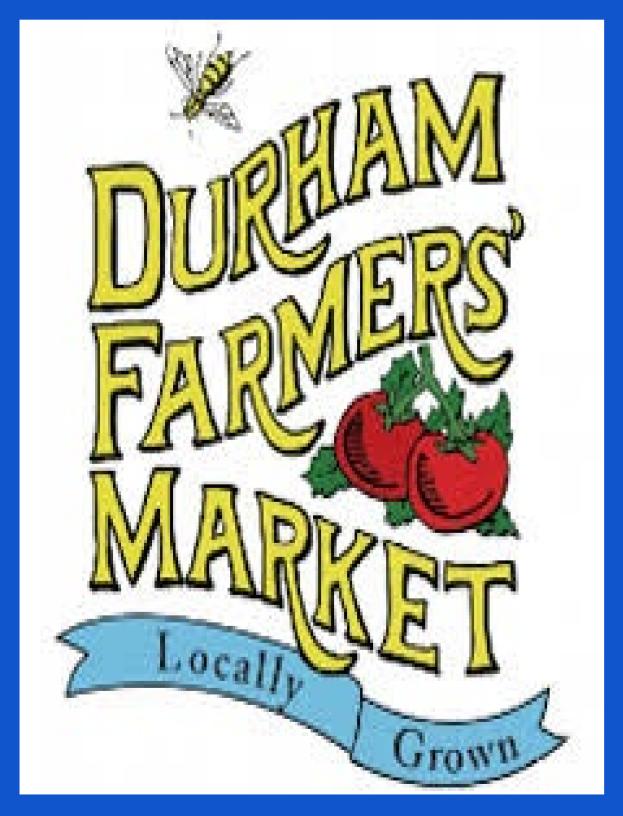
ACCESS TO HEALTHY ACCESS TO COMMUNITY

WHAT ARE OUR SOLUTIONS?

• COMMUNITY SPACE • FARMERS MARKET FOCUS ON ECOLOGY SHIPPING CONTAINERS ENTREPRENEURSHIP TRAINING



LOCATION



An ALL LOCAL PRODUCER ONLY market

 Is passionate about local food and sustainability of the Durham Community

 Durham's Farmers Market is located in Durham Central Park

• Food Trucks and Art Market







LOCATION







STEEL Academy Location Video

https://youtu.be/b6UYWT9x0gw



CURRICULUM & INSTRUCTION

Focus on critical thinking, creativity and innovation

- Real life experience
- Small class sizes
- Community engagement
- Community service
- Collaborative Groups



SMALL CLASS SIZES

- No more than 12 students per class
 Learning Pods
- Research proven: Higher Achievement
 Individualized Attention
- Teachers have more opportunities to
 - observe and assess
- Classes become a community
- Teachers can differentiate instruction
- Easier to collaborate
- Teachers can build better relationships
 - with students and parents

CRITICAL THINKING & INNOVATION

- Project based learning
- Collaborative Groups and think tanks
- In Laboratories researching and coming up with new technology and innovative ways to help our community
- Graded on our creativity and innovation not by taking a test.





Create Jobs & Wealth in our



TECHNOLOGY

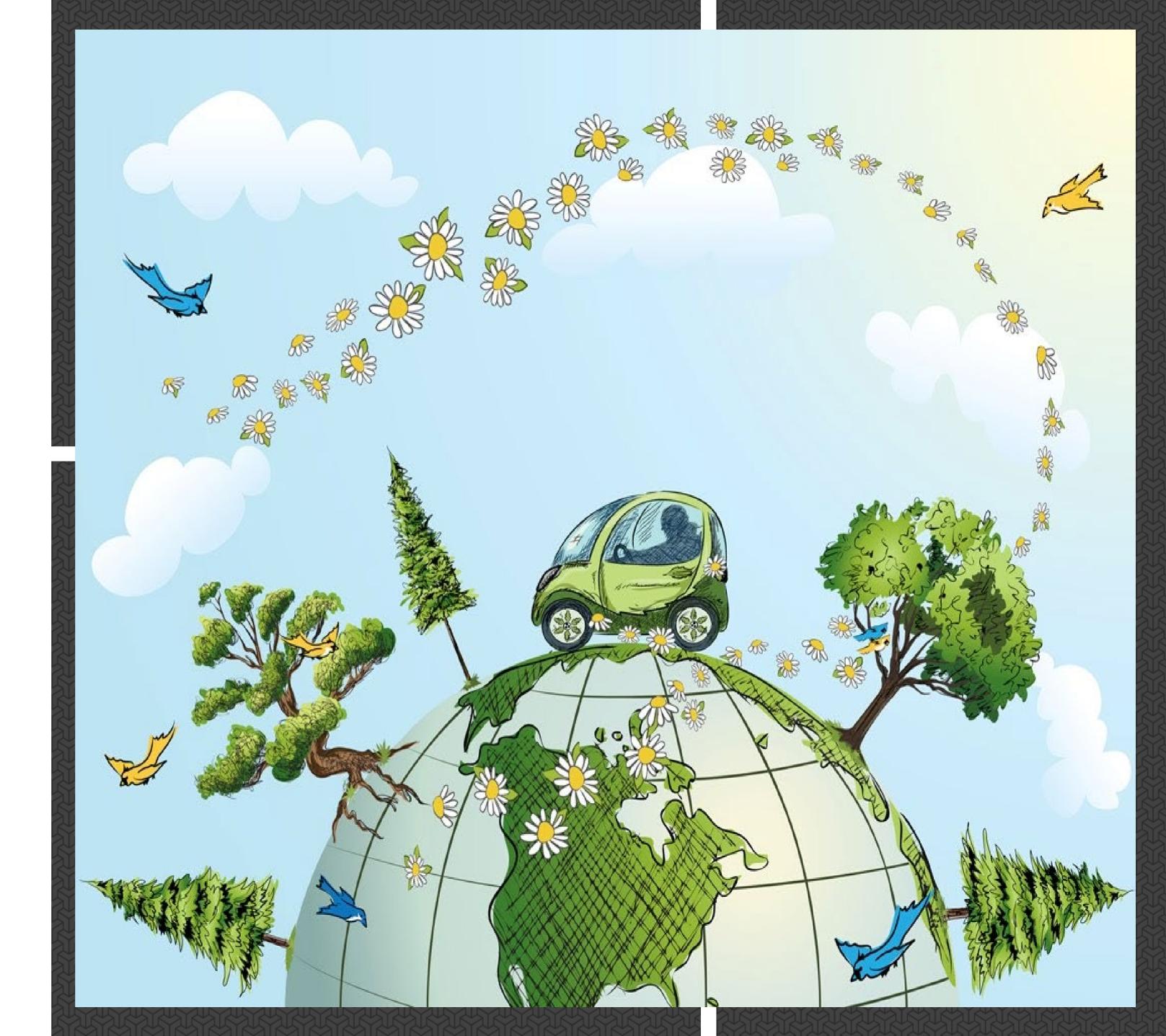
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Innovative Technology for Farming Digital Media Center

- Tablets
- Laptops
- Design Lab: 3D Printing
- Digital Art
- Virtual Reality Labs

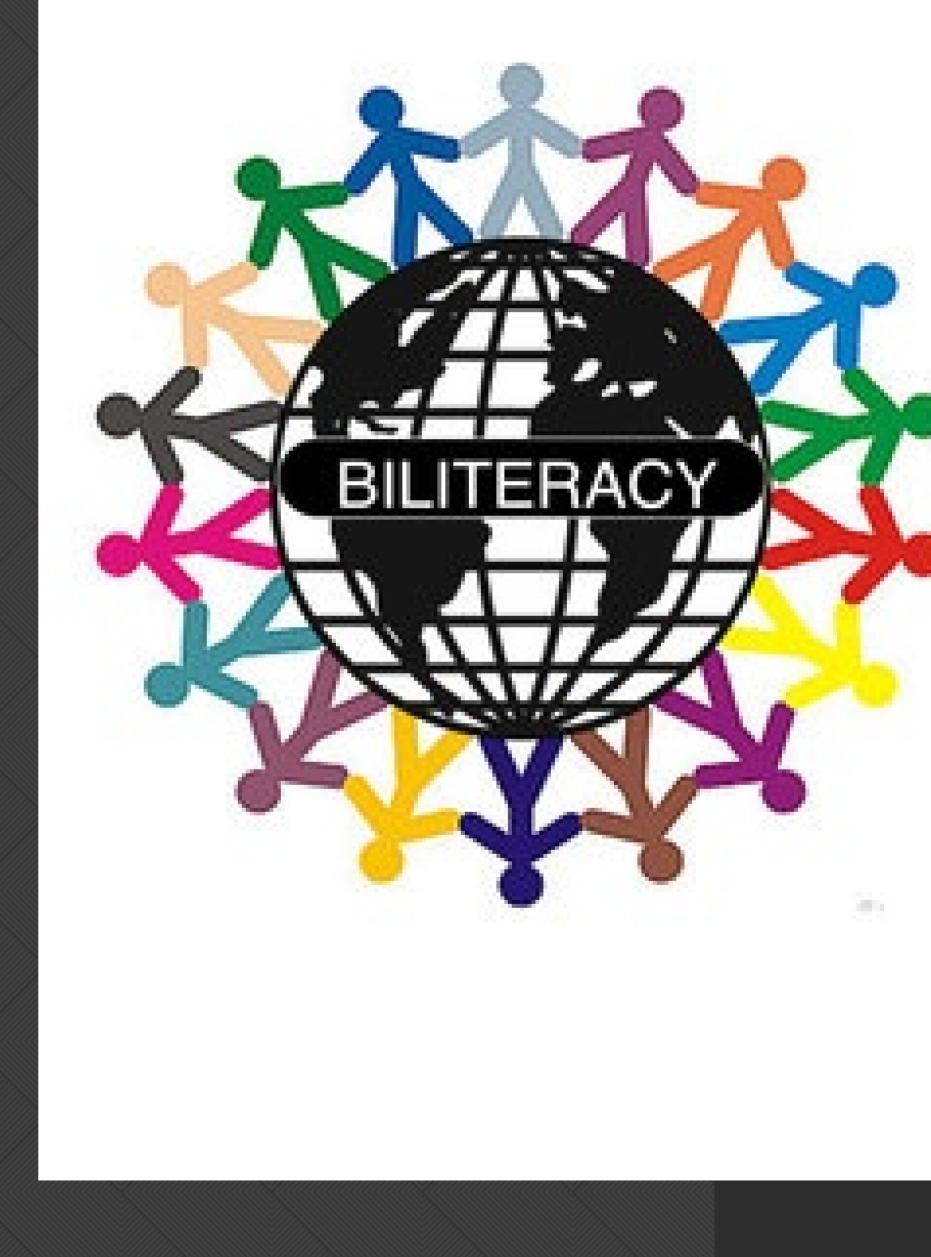
ECOLOG Y • The study of living things,

- The study of living things, their environment, and the relation between the two.
- Environmental Conservation
- Energy Conservation
- Limited Resources
- Eco Friendliness



DUAL LANGUAGE

- To unify staff and students in creating a shared community
 - (NC ranked 11 in the country for hispanic population)
- To acquire a second language
- To have a greater capacity for listening
- To think more creatively and analytically
- To develop better communication skills
- To problem solving
- To have a greater awareness of self and others
- To gain insights into other cultures







PUBLIC SPACE

The Community is based upon equality mutuality, and reciprocity to affirms the richness of individual diversity as well as the common integration and us together."

 Open and accessible to the community Community Events • Farmers Markets • Food Truck Rodeos Sense of pride and belonging in the community

FARMERS MARKETS

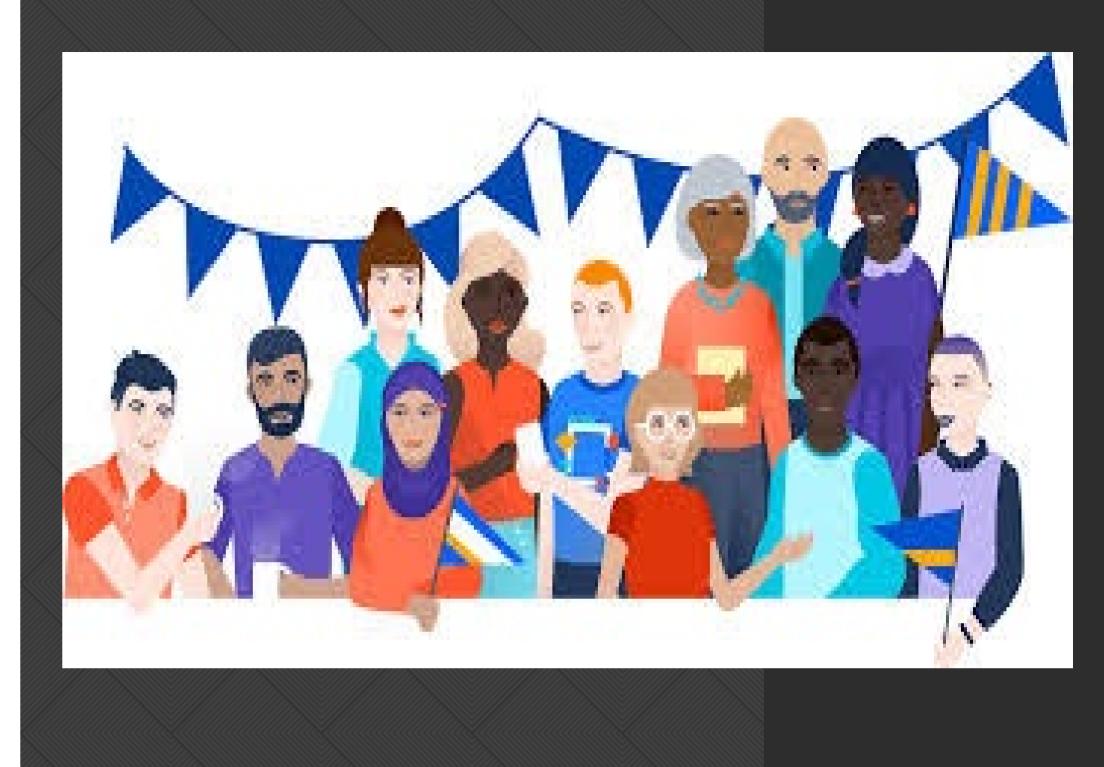
- Every Saturday
- Provides healthy fresh food to our community
- Run by students and local community farmers and food trucks
- Affordable
- Durham Farmers market participates in the SNAP program which provides access to healthy food for families in need.





OPEN CAMPUS

- Meeting Spaces
- Community Dinners and Events
- Access to our Digital Media Center & Labs
- Access to Crops and Cafe 7 days a week
- Community Partnerships





CLASSES

- Student led classes
- Cooking
- Healthy Eating
- Community Gardens
- Sustainable & Energy Efficient





Brings healthy fresh food and crops into the community

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MOBILE CAFE & GARDEN





SUSTAINABLE AND ENERGY EFFICIENT

- Rainwater Harvesting
- High Energy Photons
- Rooftop Gardens
- Hydro Power
- Shipping Containers
- Wind Turbines
- Ecosystem & Biodiversity













- Cutting edge of agriculture
- 40-foot shipping container farm can grow
 5 acres of food with 97% less water
- Access to local produce means its fresh
- Mobile to bring food into our communities

URBAN FARMING



HYDROPONICS



Hydroponics are plants or crops that are grown without soil
We use Hydroponics because we don't have enough space to start a farm.
The method of Hydroponics is the fastest growing sector in agriculture.
You can also plant up to 4 times as many crops in the same space.



BEE HIVES

- Bees and other insects help pollinate flowers.
- Used for non-process honey
- They pollinate almost one third of everything you eat.
- Fresh products
- Most plants need the service of the pollinators

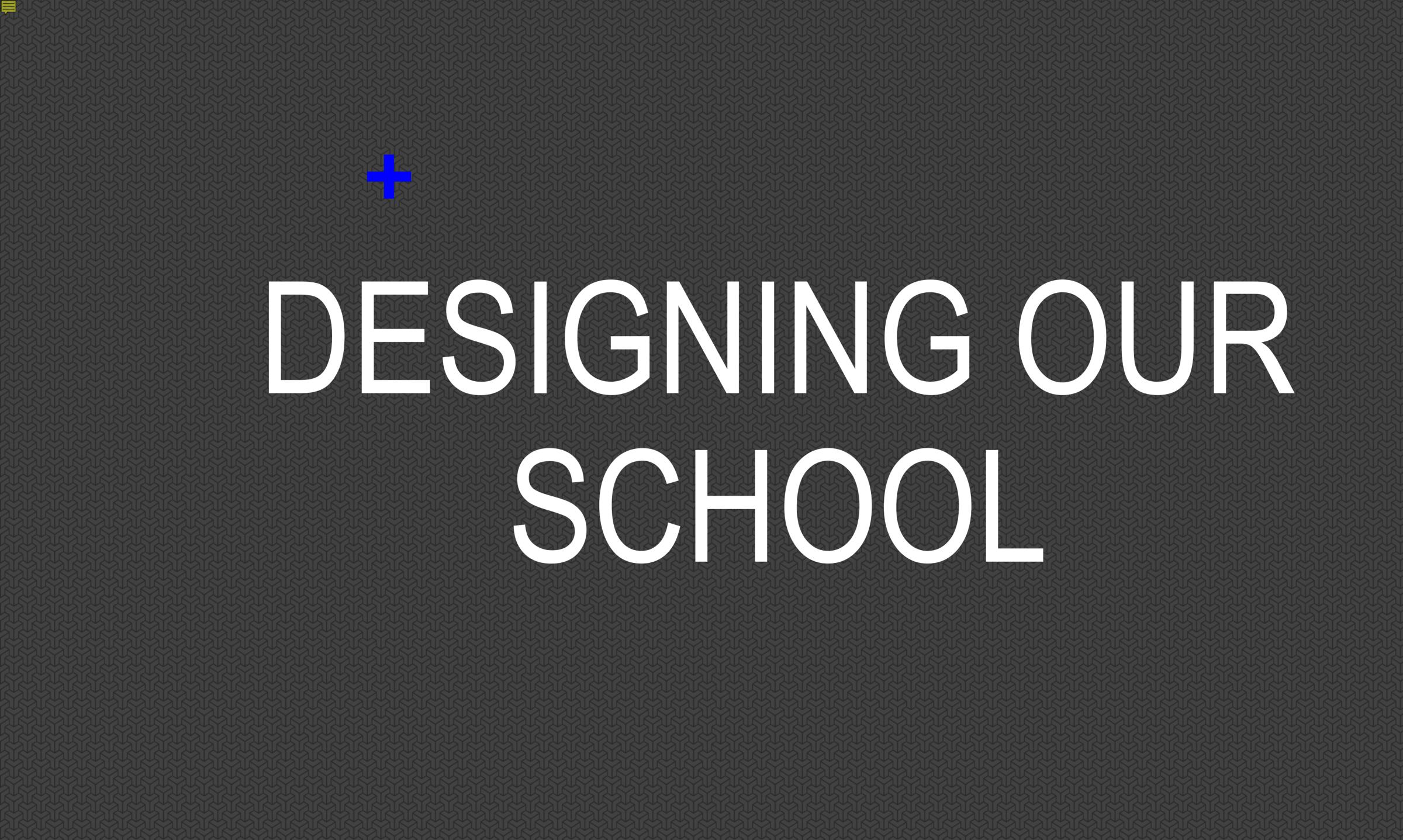




SHIPPING CONTAINER FOOD TRUCKS

- Overhead costs is less
- It's A Great Way To Break Into The Industry And Learn.
- You Can Tap Into Many Streams Of Income.
- Mobile way to bring crops and healthy food into our community.
- Shipping containers are a way to reuse and reduce waste











COLOR THEORY





 One of the strongest materials on Earth. Shipping containers are made from weatherproof steel. Would give our school a strong foundation



Water



being

Restorative, Calming and Balancing The presence of water is vital to our

- bodies, our lives, and our entire wellbeing
- humans love to see, hear, smell,
 and feel water
 - and feel water
- Creates a relaxing environment where people enjoy being



Lorem ipsum dolor sit amet

PLANTS

- NATURAL BEAUTIFUL AESTHETIC
- PLANTS REDUCE STRESS
- CLEAN THE AIR
- REDUCE NOISE LEVELS
- BIOPHILIA
- SPIDER PLANT, LEMON BALM, PHILODENDRON, PEACE LILY, GOLDEN POTHOS



SHIPPING CONTAINERS

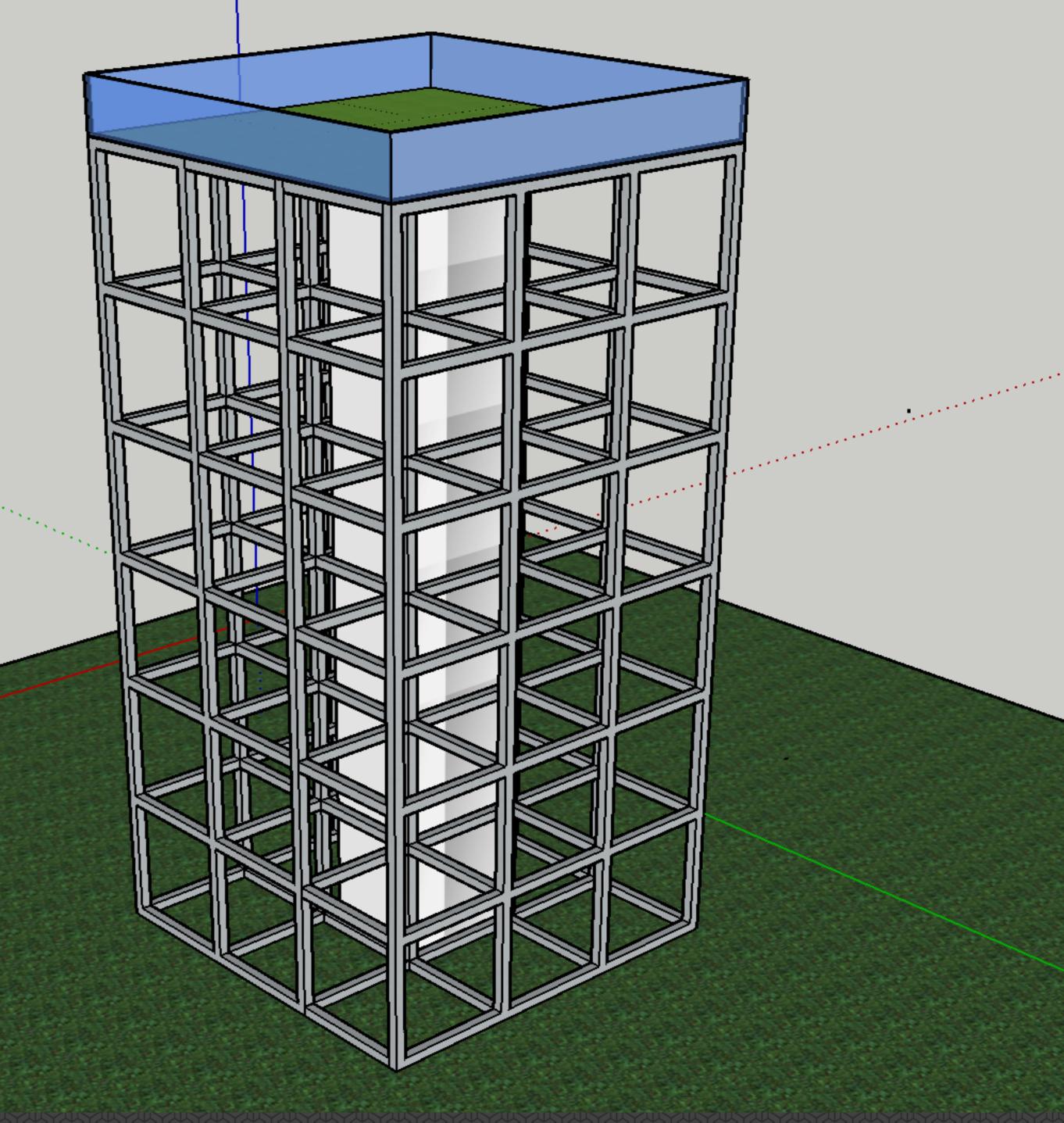


Cost Efficient
Eco Friendly
Fast to Build
Building can be done off site
Sleek Modern Design



Steel Foundation

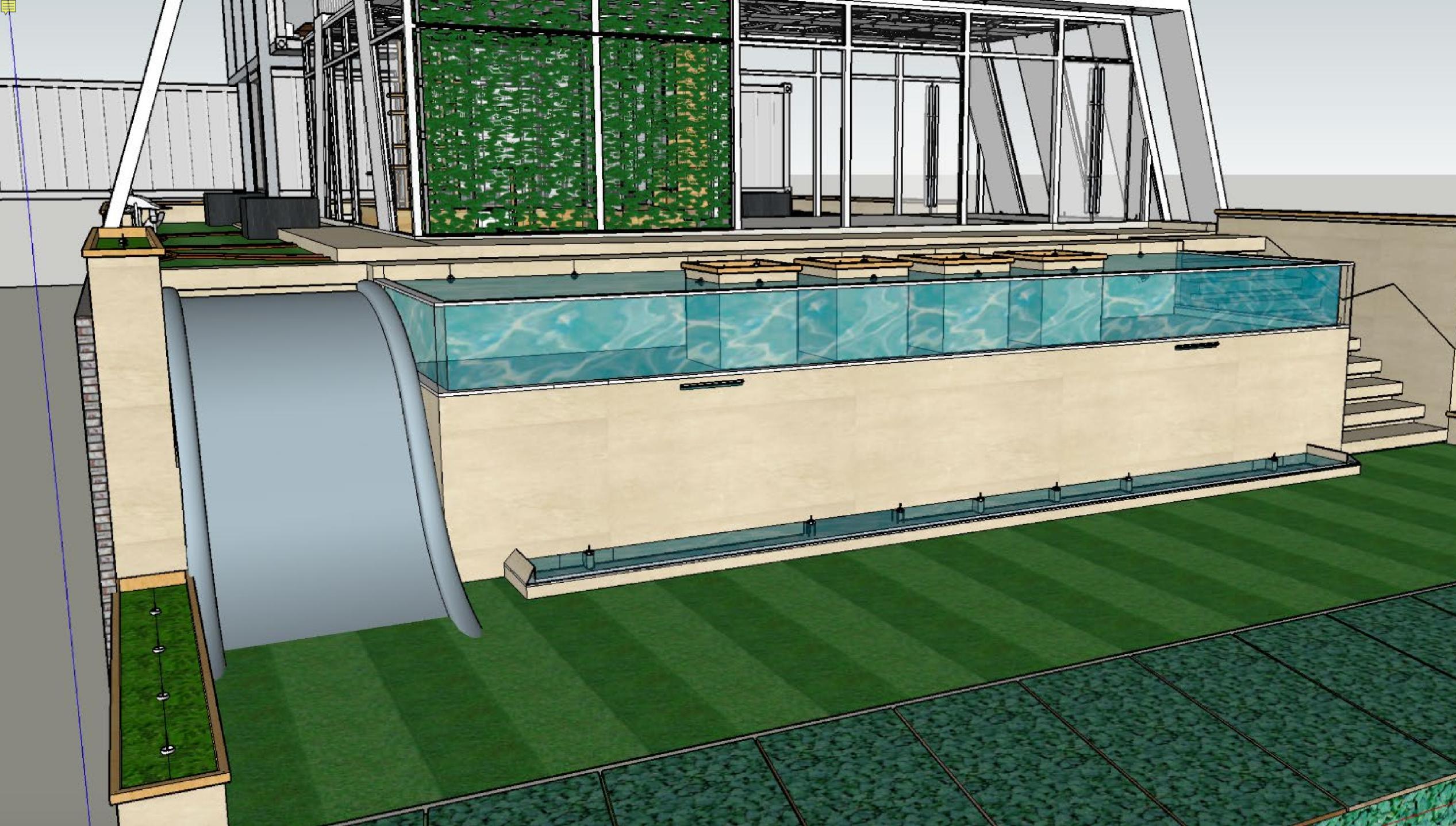


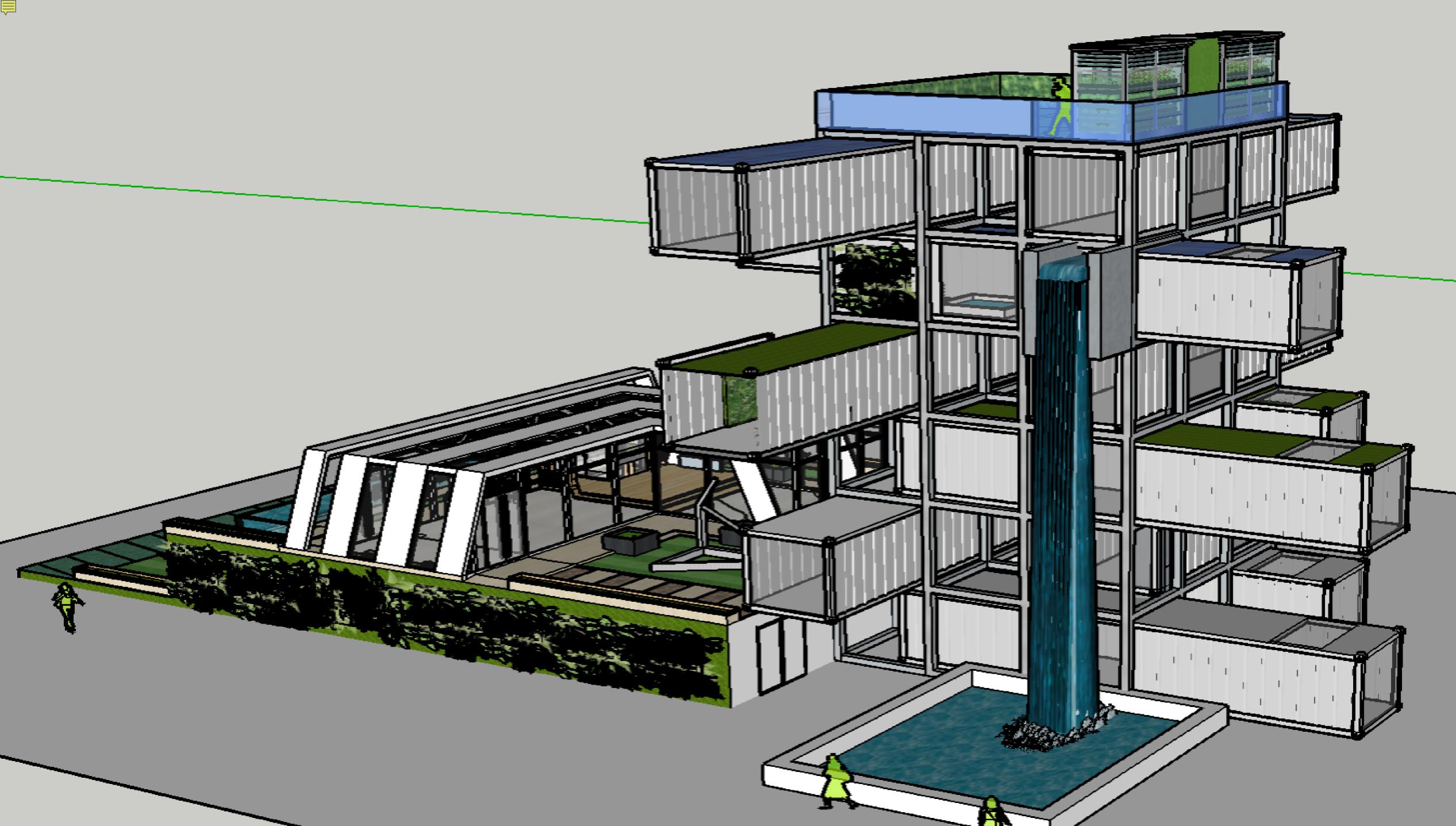


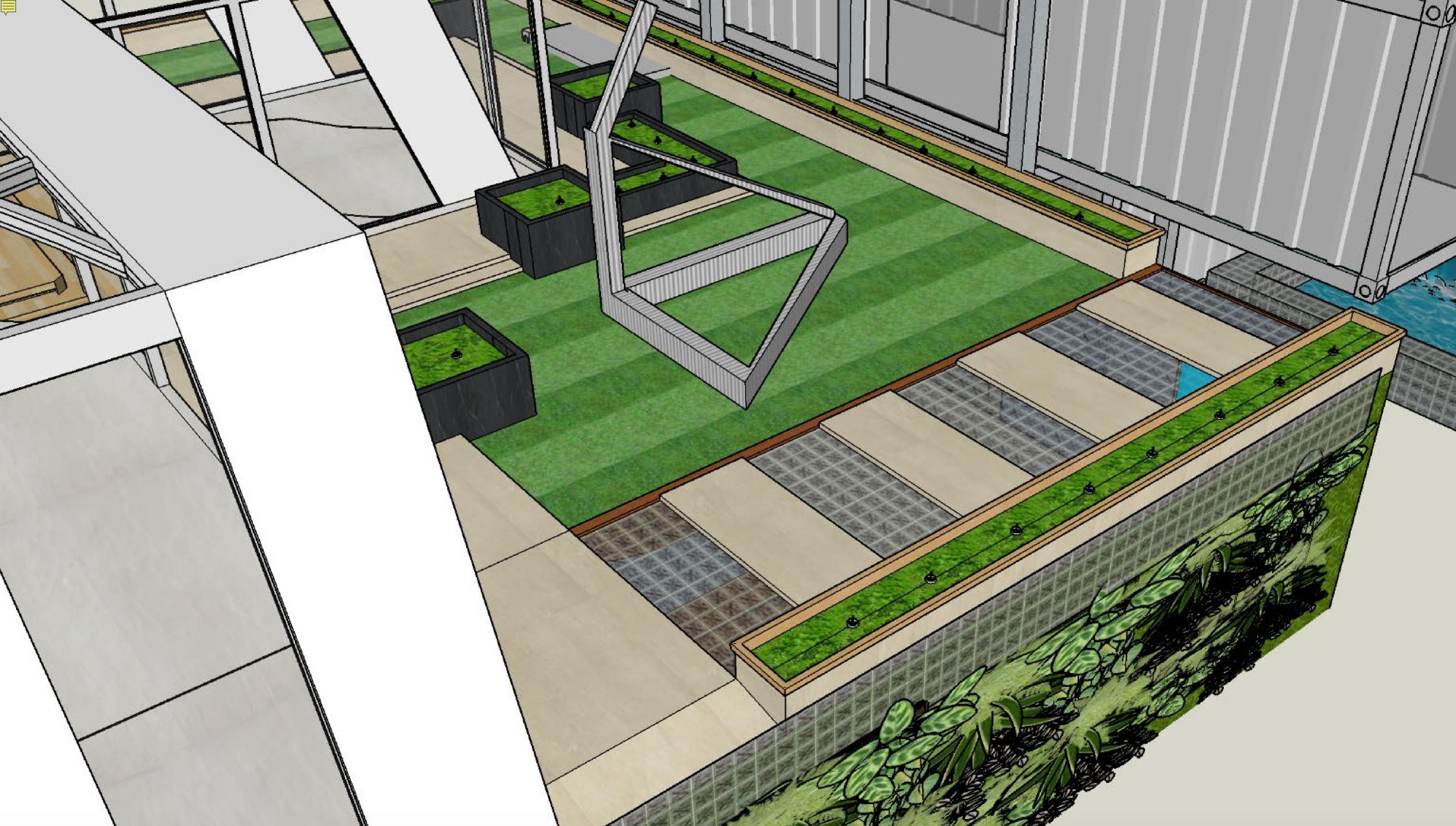






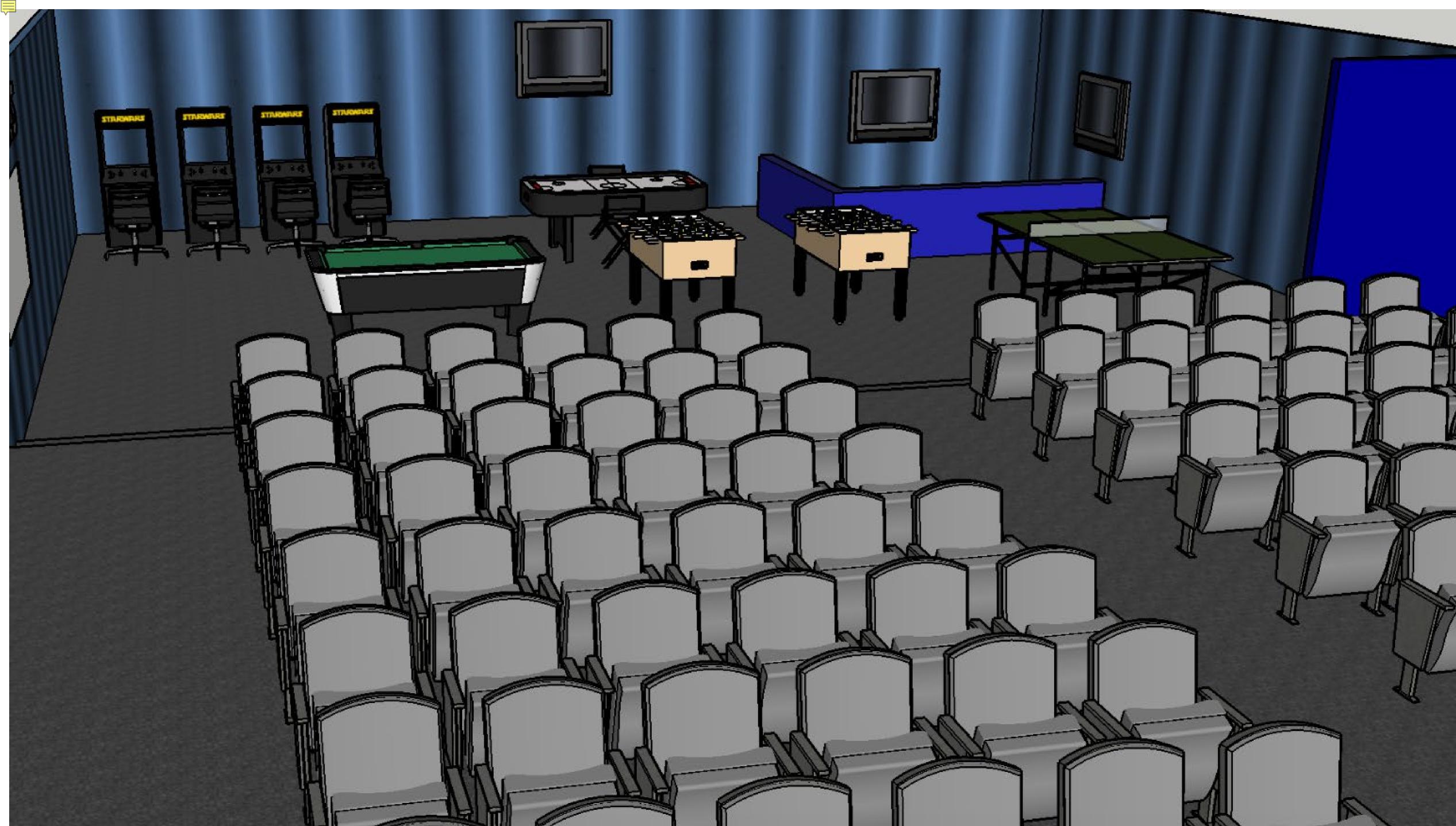












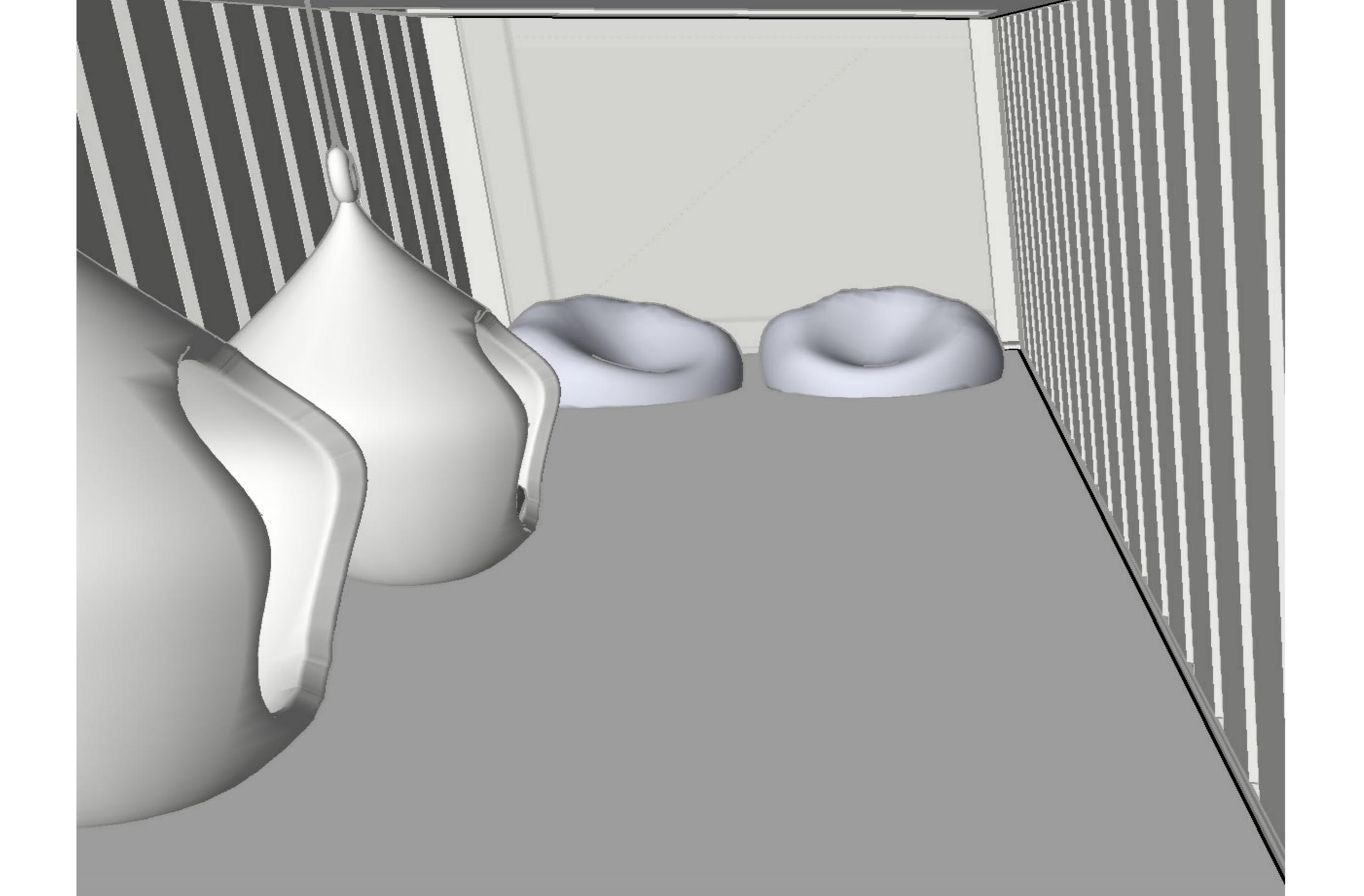








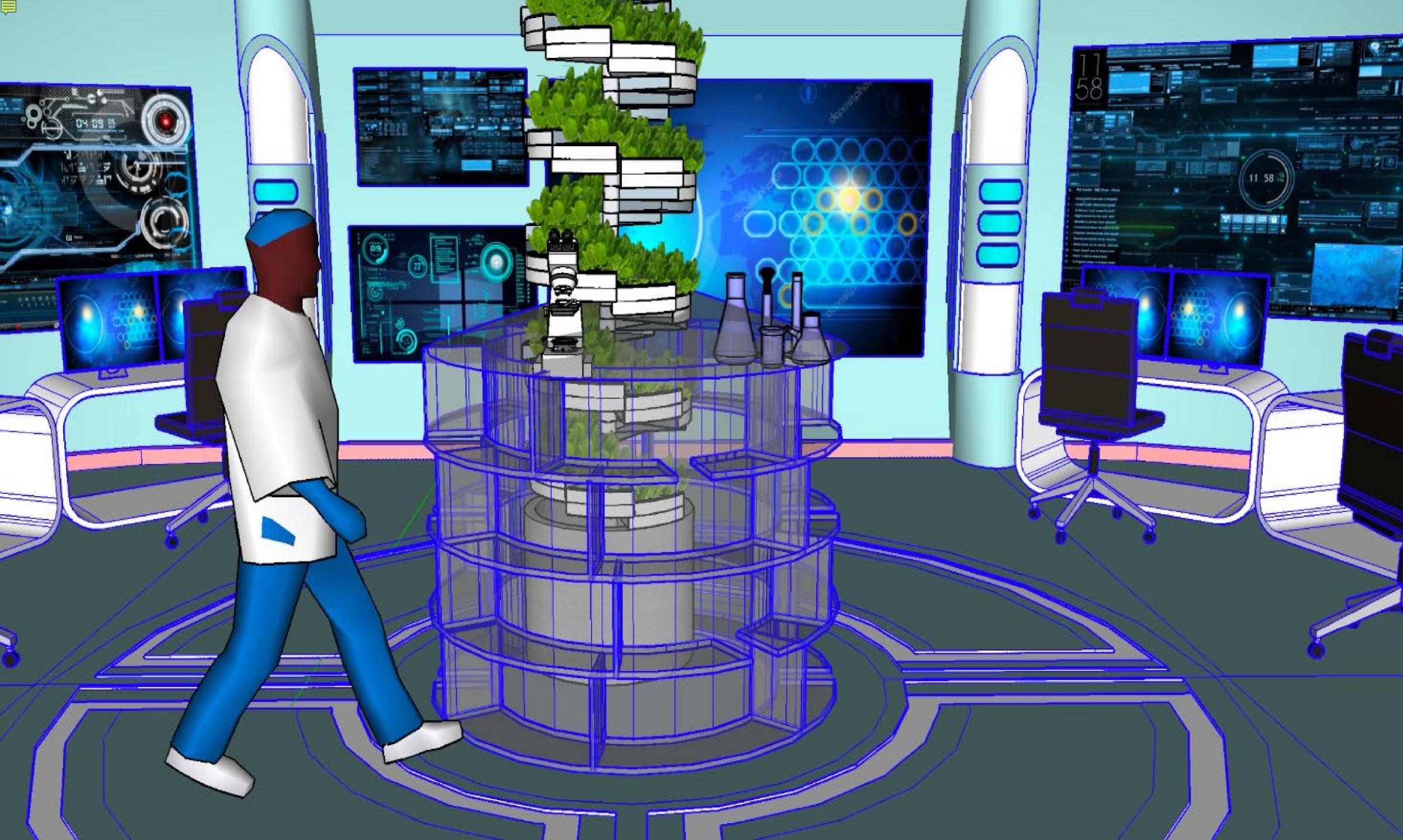




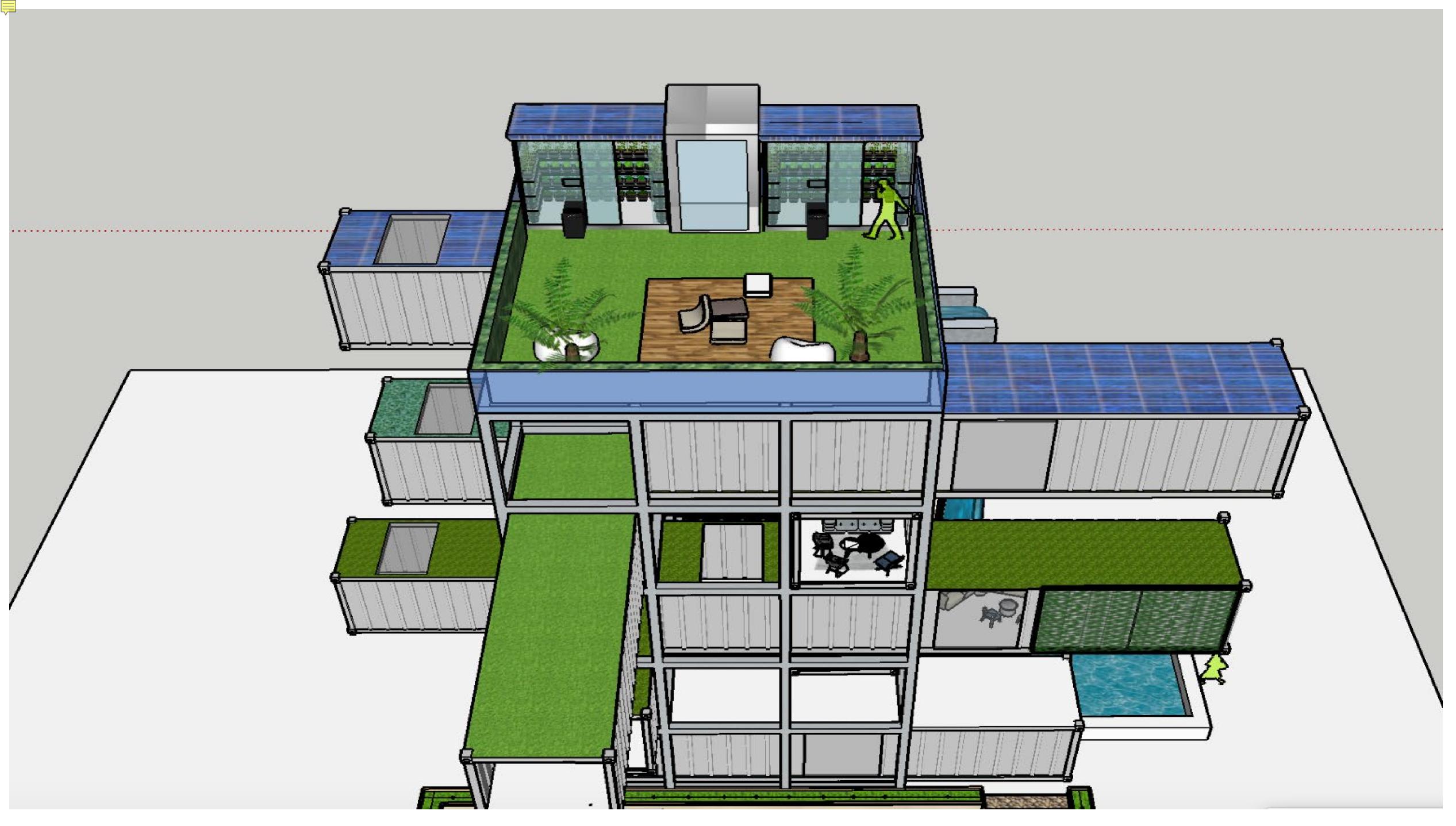




URBAN FARMING



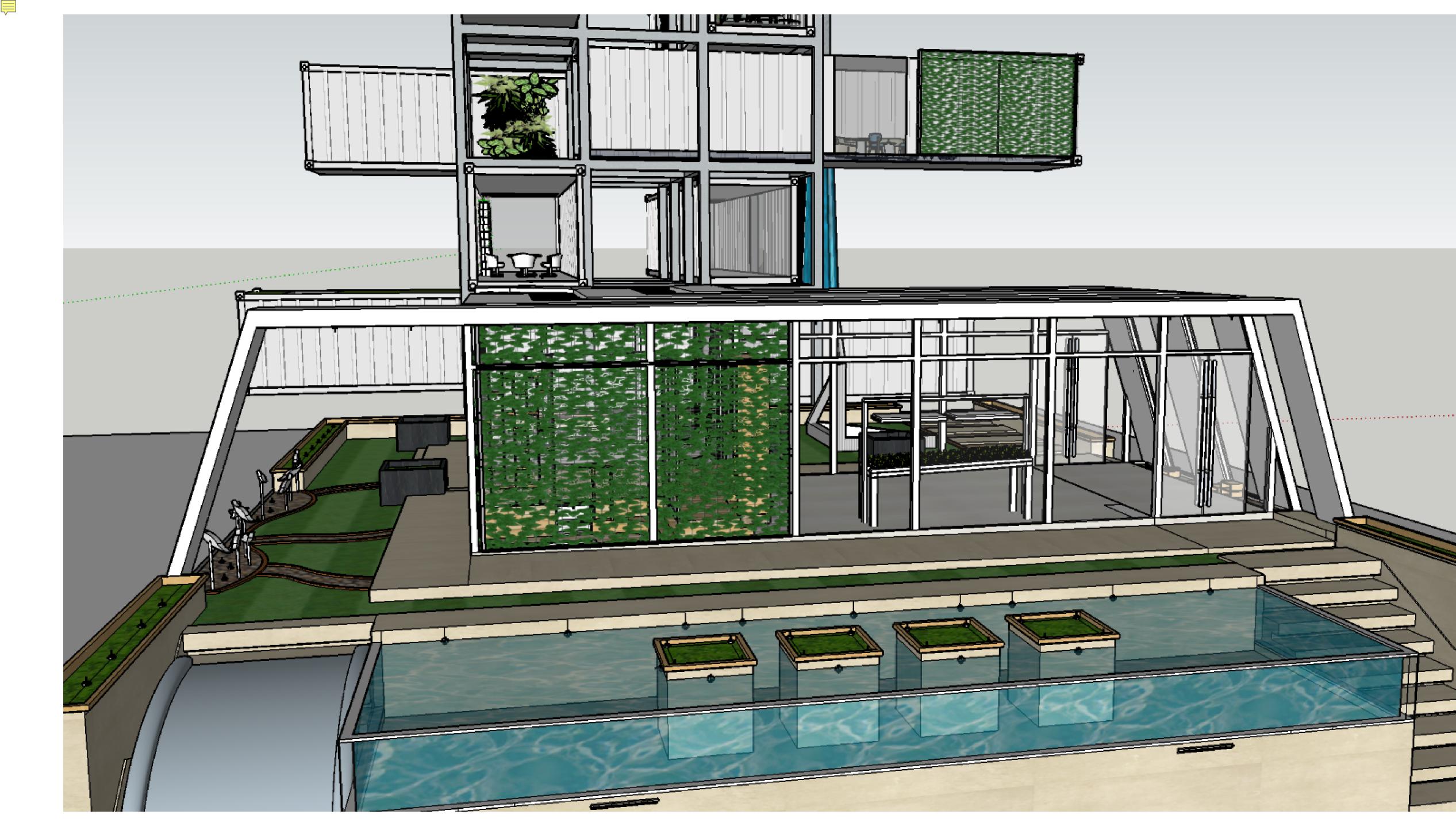
























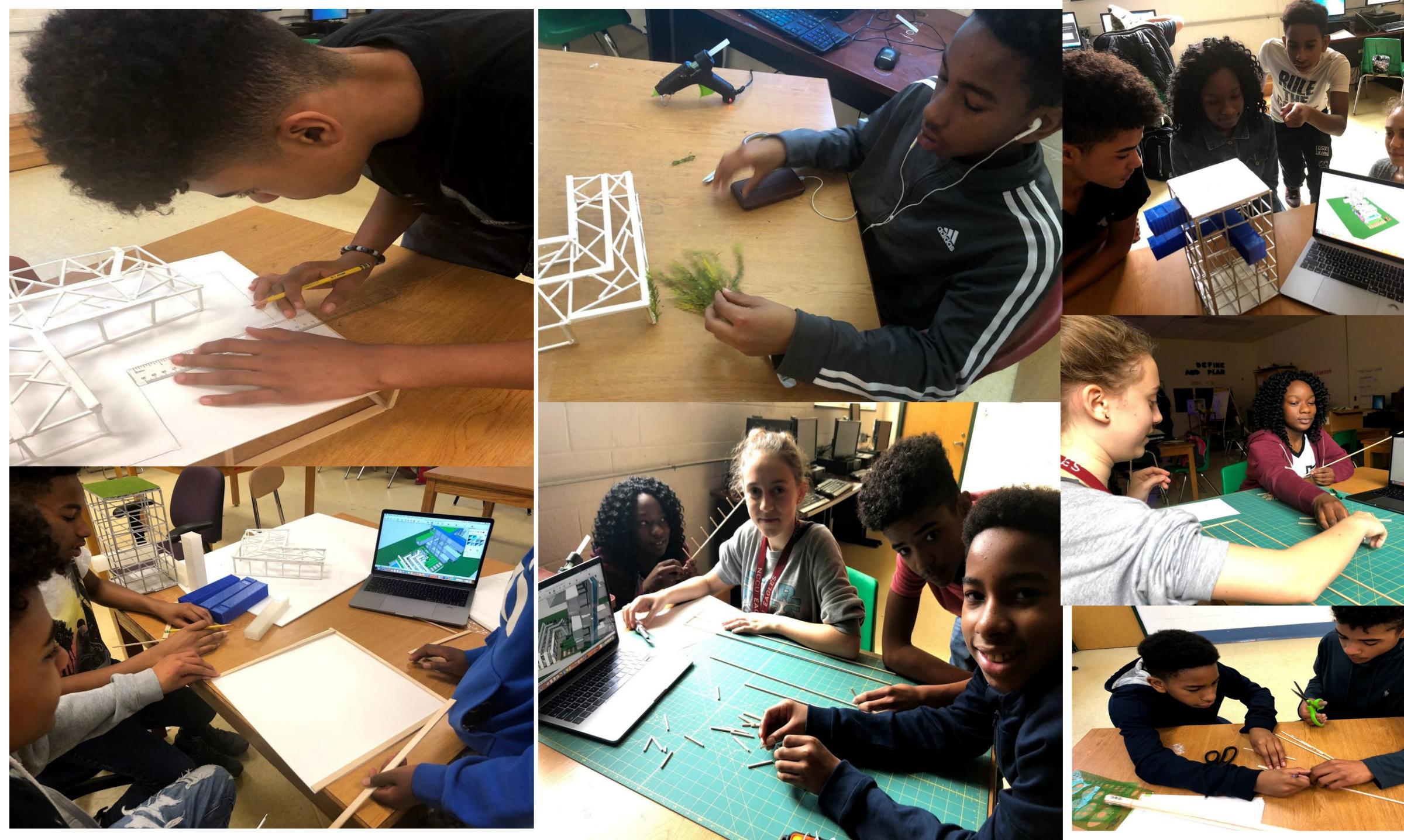








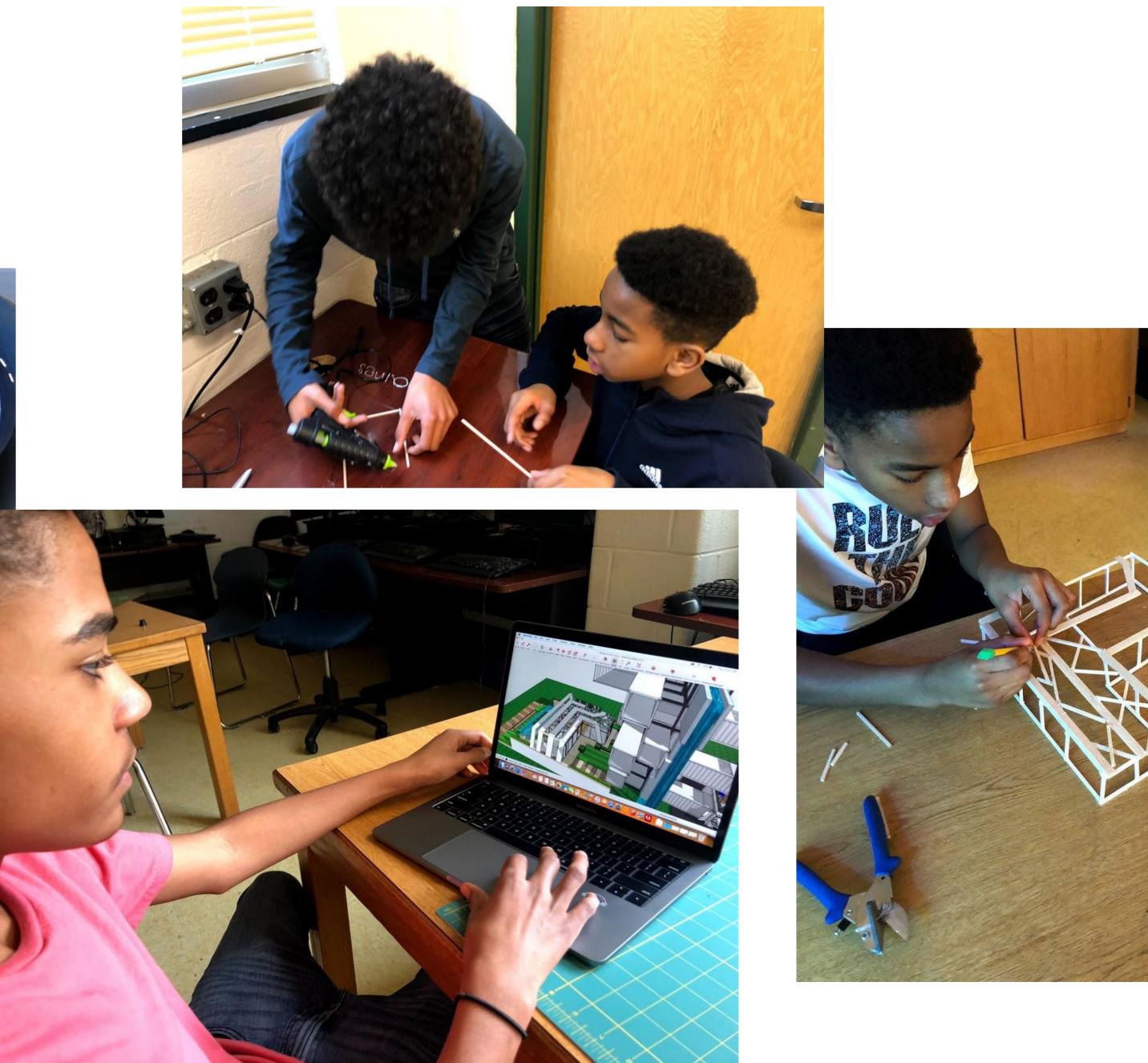






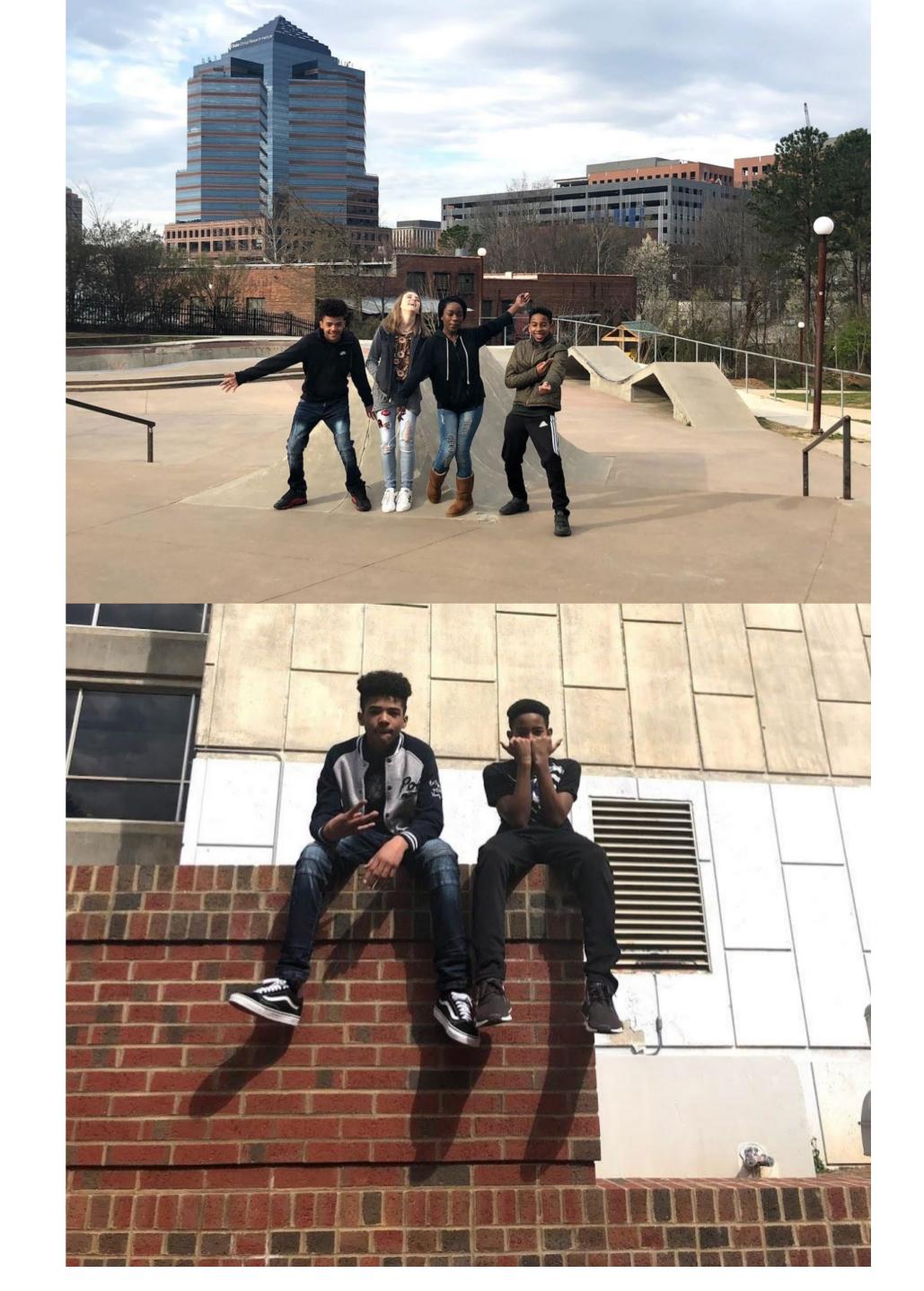


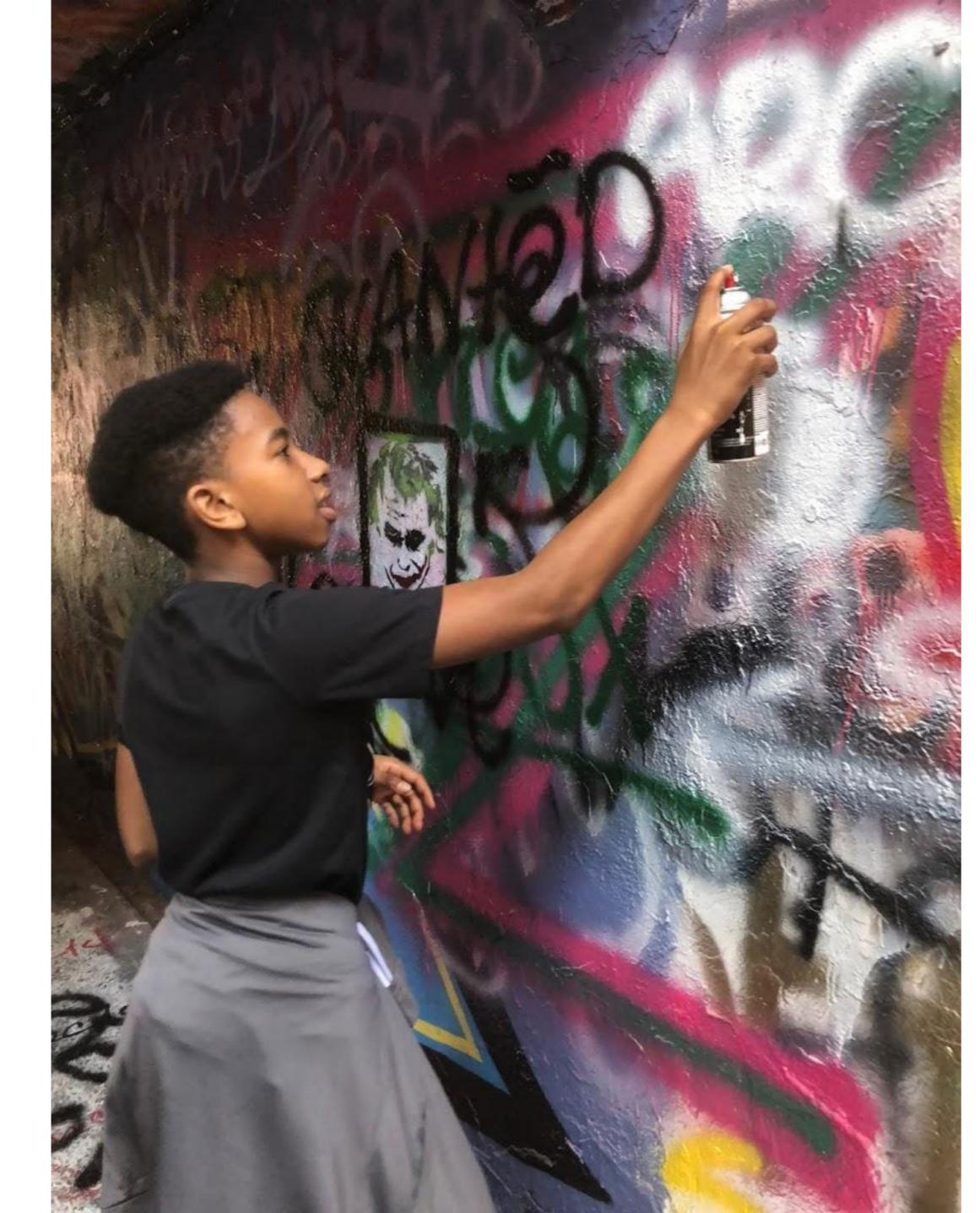








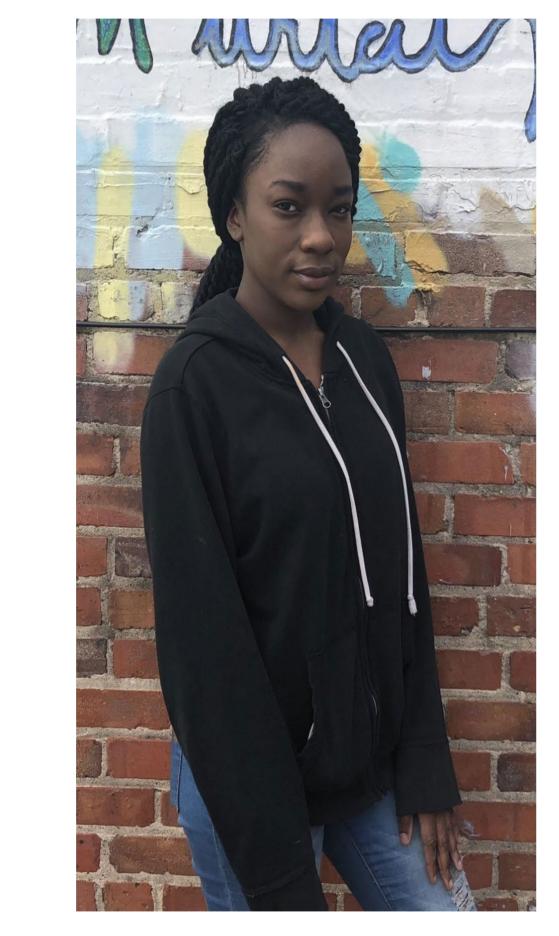








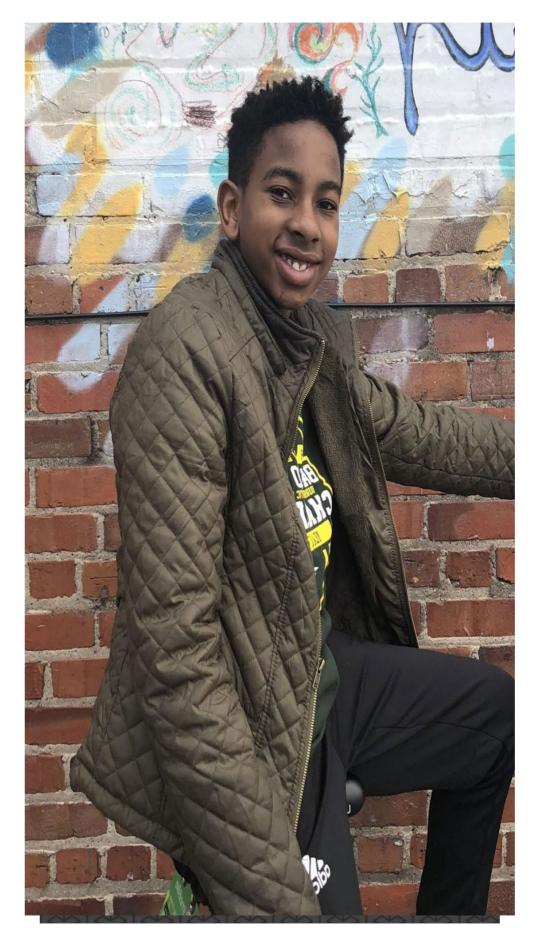
The Team



Irene Tamba Engineer & Designer



Mackenzie Giotinno Architect & Designer



Seth Allen Research & Agriculture



Mikal Ali Project Manager



