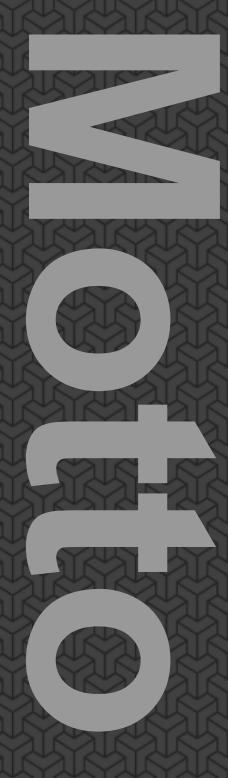
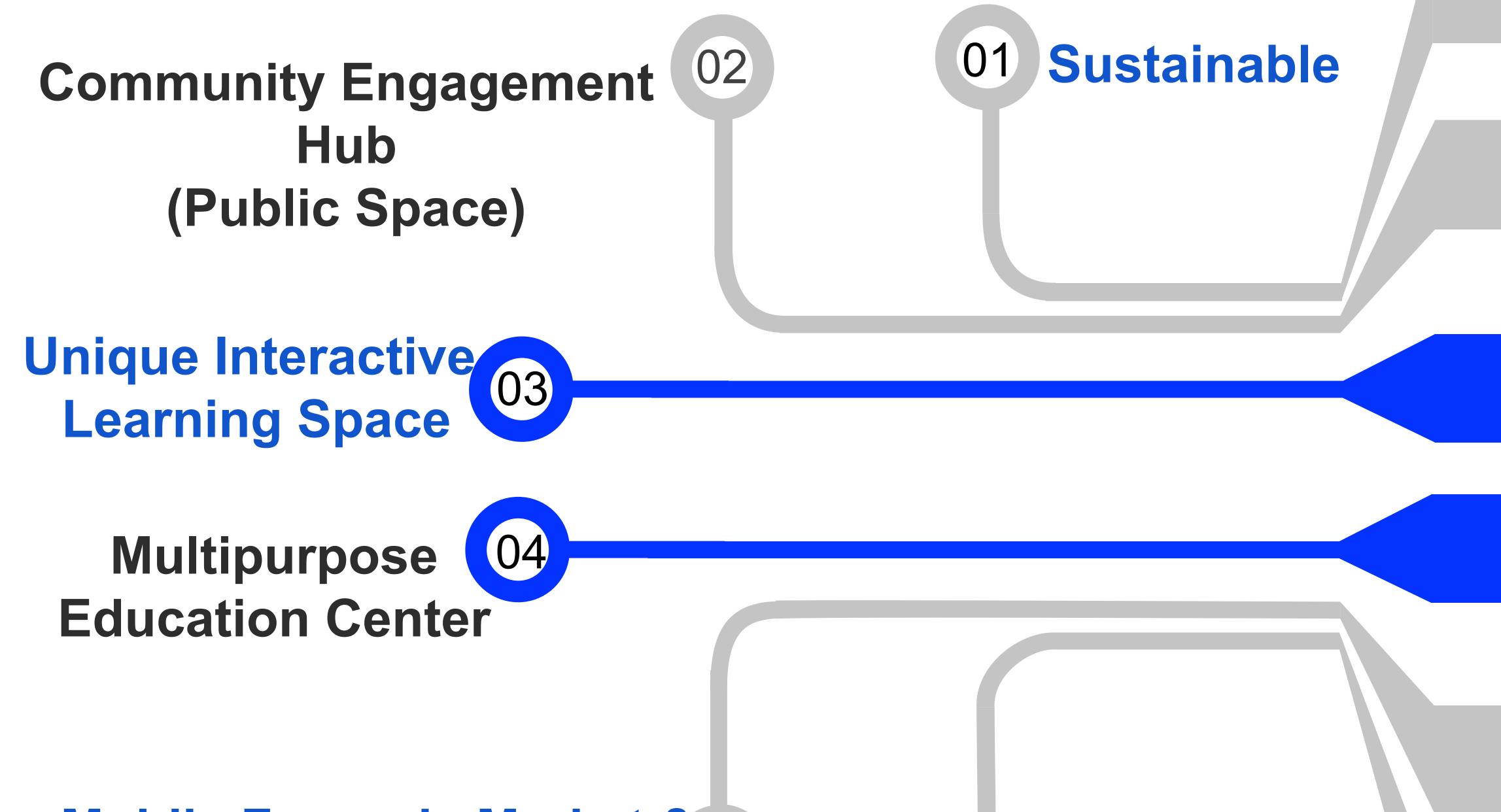


Seth Allen - Mikal Ali - Mackenzie Giattino -

# Building a strong foundation with 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, e c o n o m i c a l l y a n d environmentally healthy community.



Mobile Farmer's Market & 05
Healthy Cafe

06 Urban

#### ENGINEERING DESIGN

#### PROCESS

DEFINE THE PROBLEM

EXPLORED IDEAS

APPLY A SOLUTION

LOOK BACK AND LEARN

#### PROBLEMS & SOLUTIONS

#### WHO DID WE TALK WHAT WERE THE TO?

PROBLEMS?

WHAT ARE OUR SOLUTIONS?

- COMMUNITY MEMBERS
- TEACHERS
- PARENTS
- STUDENTS
- UNIVERSITY SCHOLARS

- ACCESS TO HEALTHY FOOD
- ACCESS TO JOBS
- ACCESS TO COMMUNITY SPACE

- COMMUNITY SPACE
- FARMERS MARKET
- FOCUS ON ECOLOGY
- SHIPPING CONTAINERS
- ENTREPRENEURSHI P TRAINING

#### LOCATIO



- 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







## LOCATIO



# SIEL Academy Location Video

https://youtu.be/b6UYWT9x0gw

## HOWDOWE

# 

#### 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

# 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.









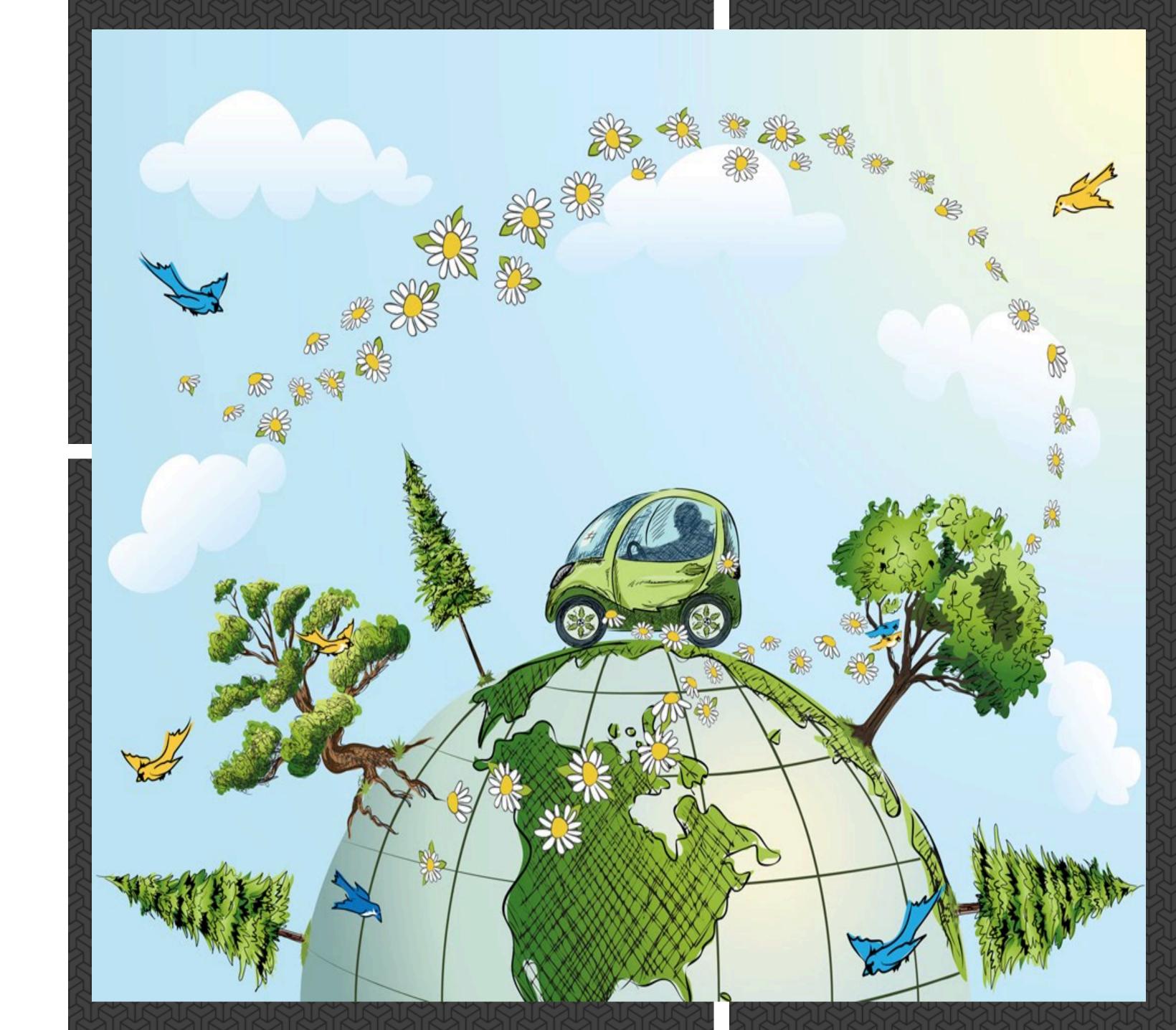
## TECHNOLO GY

- Innovative Technology for Farming
- Digital Media Center
- Tablets
- Laptops
- Design Lab: 3D Printing
- Digital Art
- Virtual Reality Labs

### 

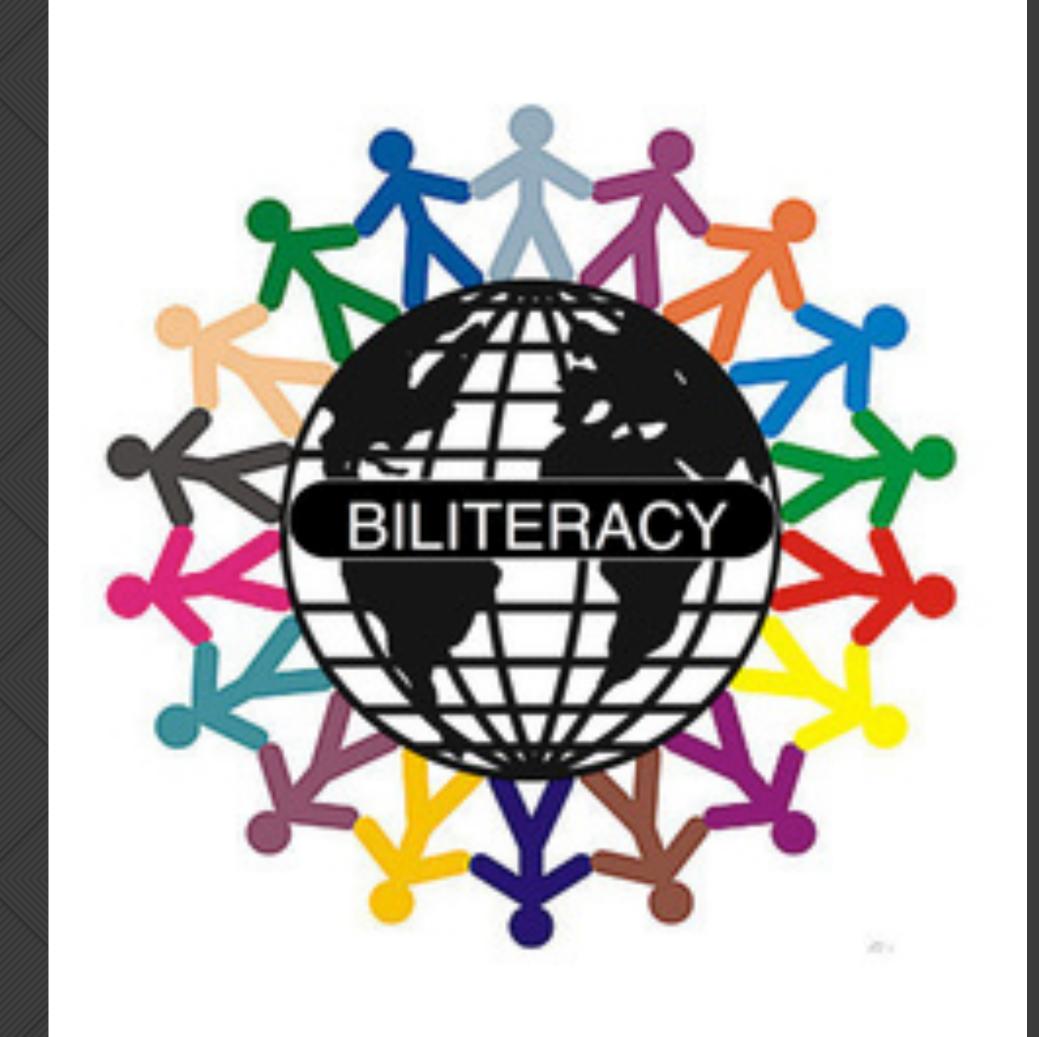
### GY

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



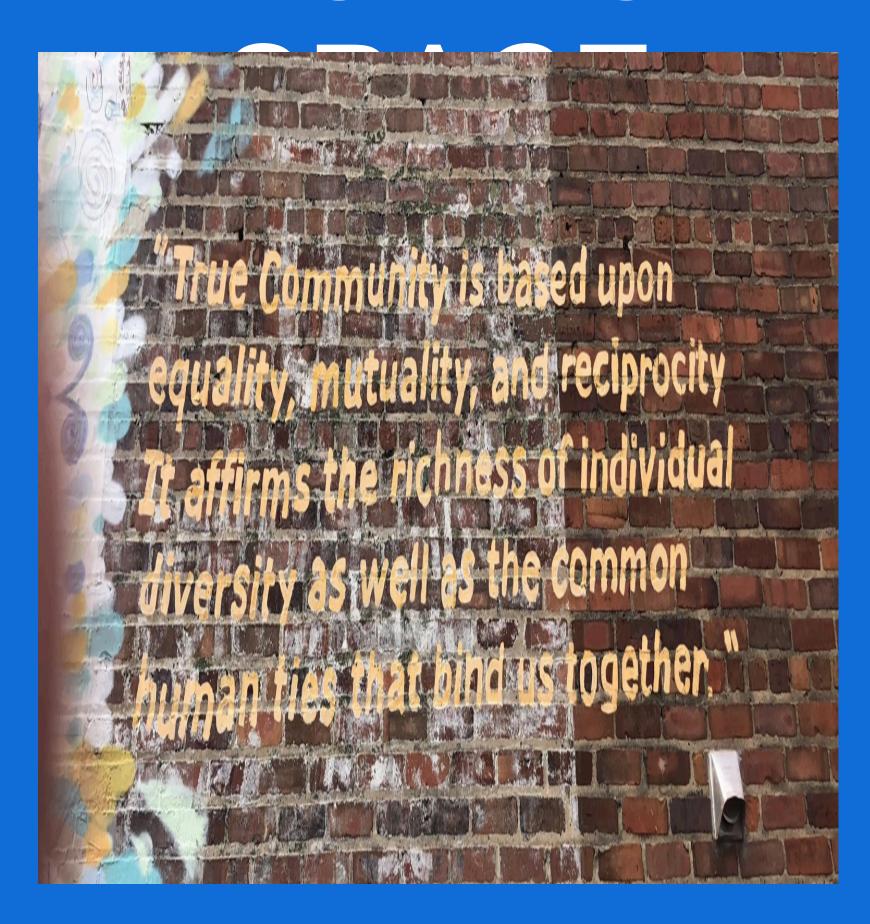
### DUAL LANGUAGE

- 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



# COMMUNITY ENGAGEMENT

#### PUBLIC



- 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







### MOBILE CAFE & GARDEN

Brings healthy fresh food and crops into the community



### SUSTAINABILI

LE AND ENERGY
EFFICIENT+
• Rainwater

- Rainwater
   Harvesting
- High Energy Photons
- Rooftop Gardens
- Hydro Power
- ShippingContainers
- Wind Turbines





### URBAN FAMING

- 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



#### 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



# DESIGNING OUR SCHOOL



# 

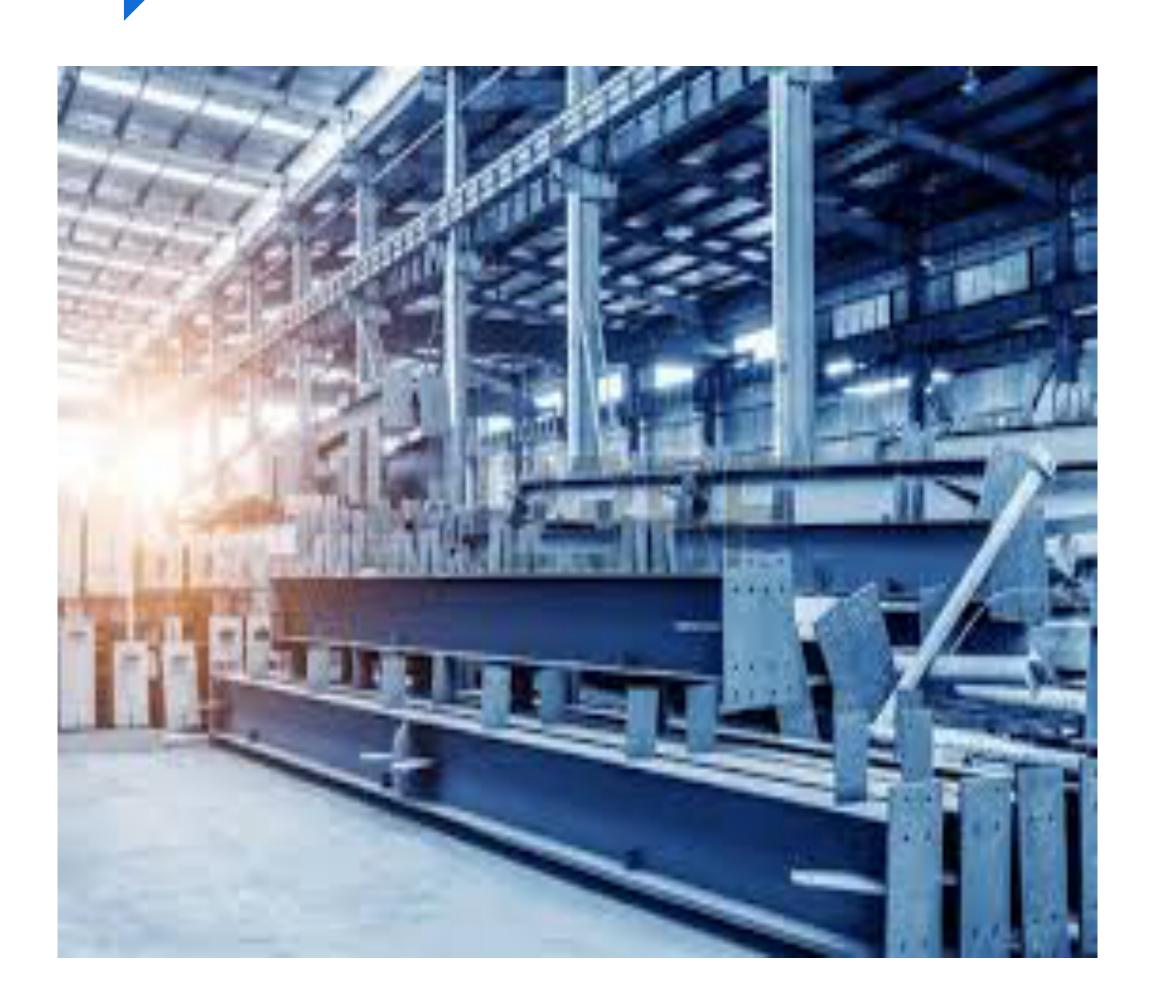


# COLOR THEOR



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

### 



#### Mater Adams



- 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
- Creates a relaxing environment where people enjoy being

### 

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











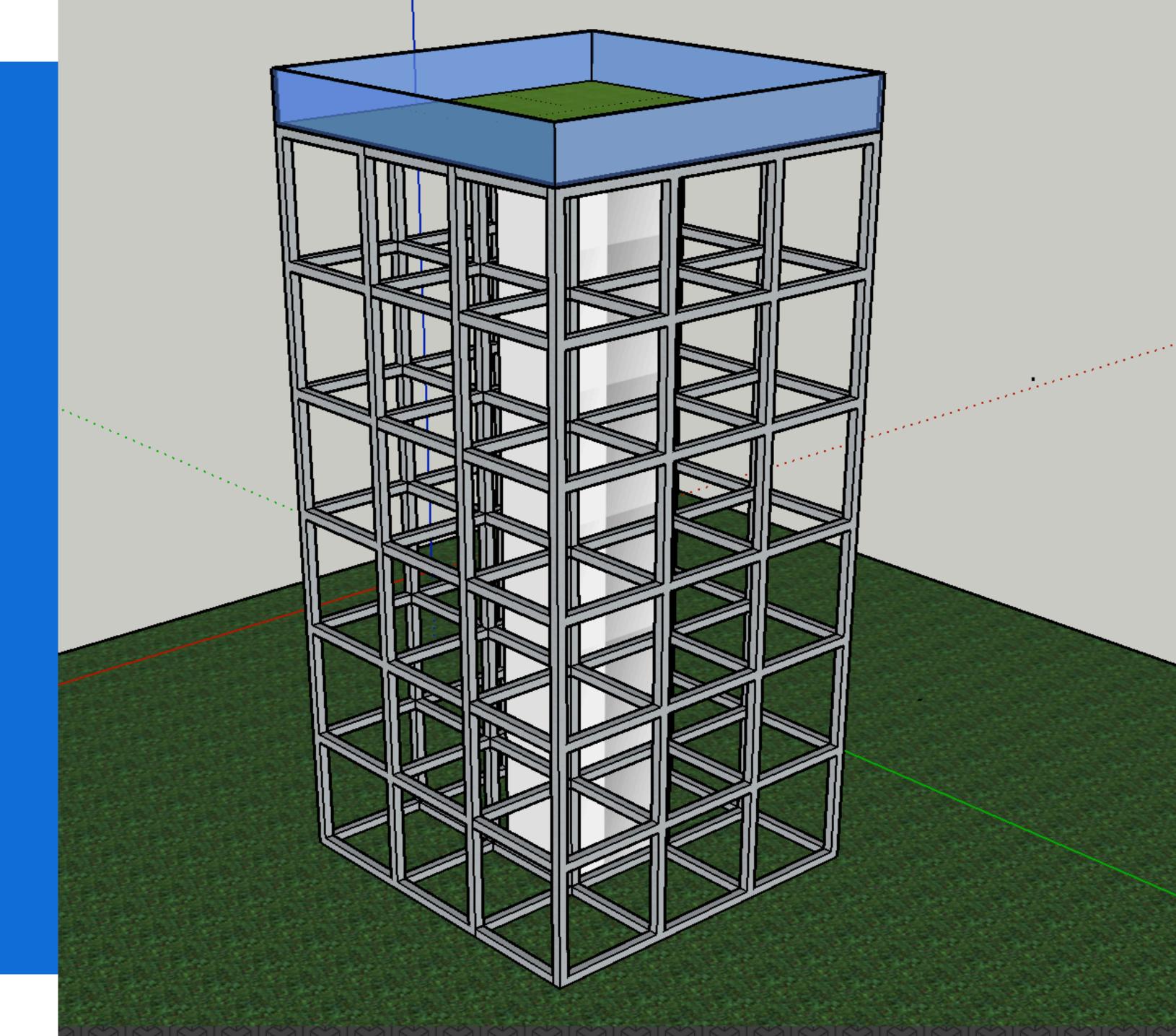
# SHIPPING CONTAINER S

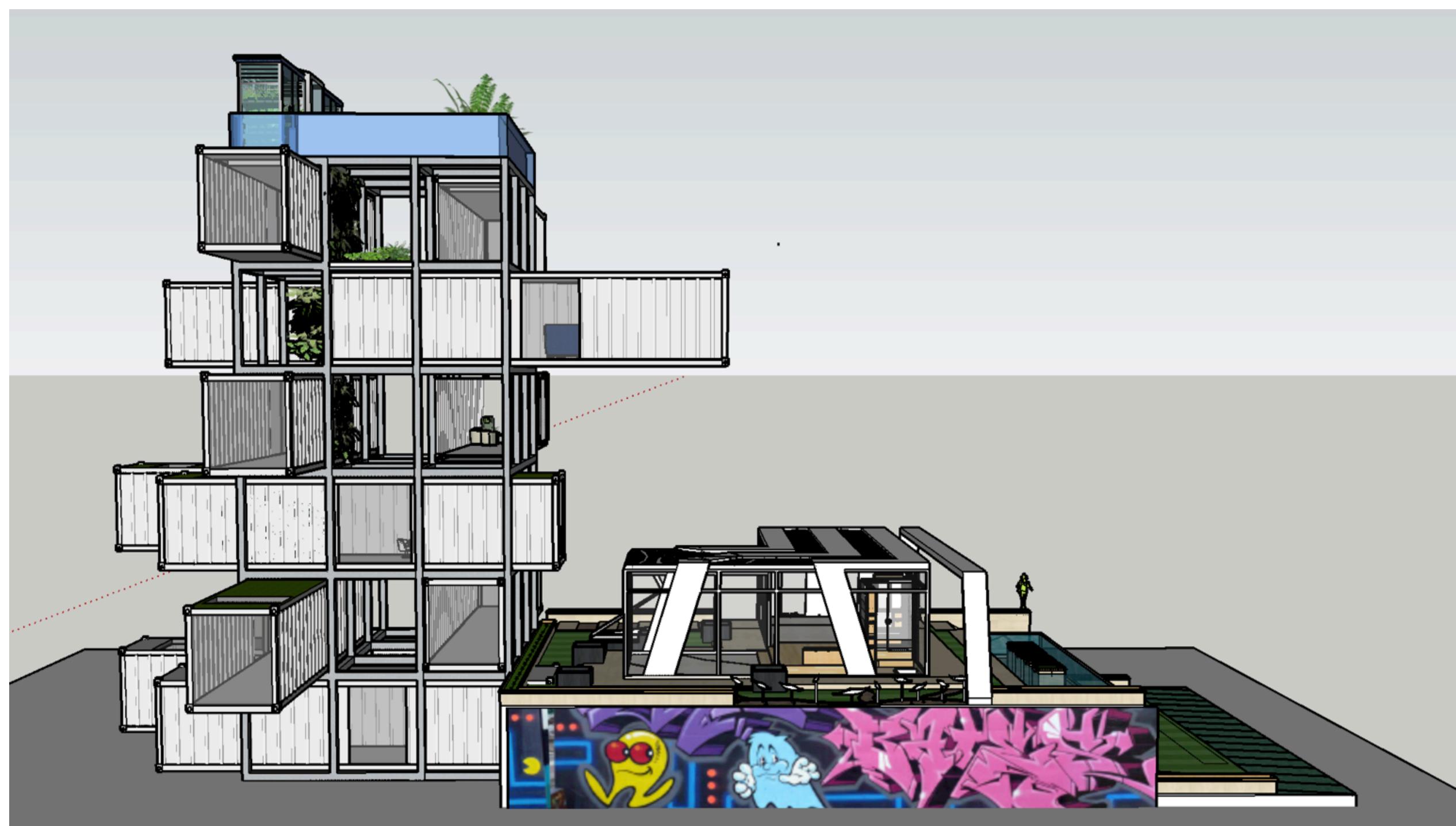
- Cost Efficient
- Eco Friendly
- Fast to Build
- Building can be done off site
- Sleek Modern
   Design

#### OURDESIGN

#### Steel Foundation

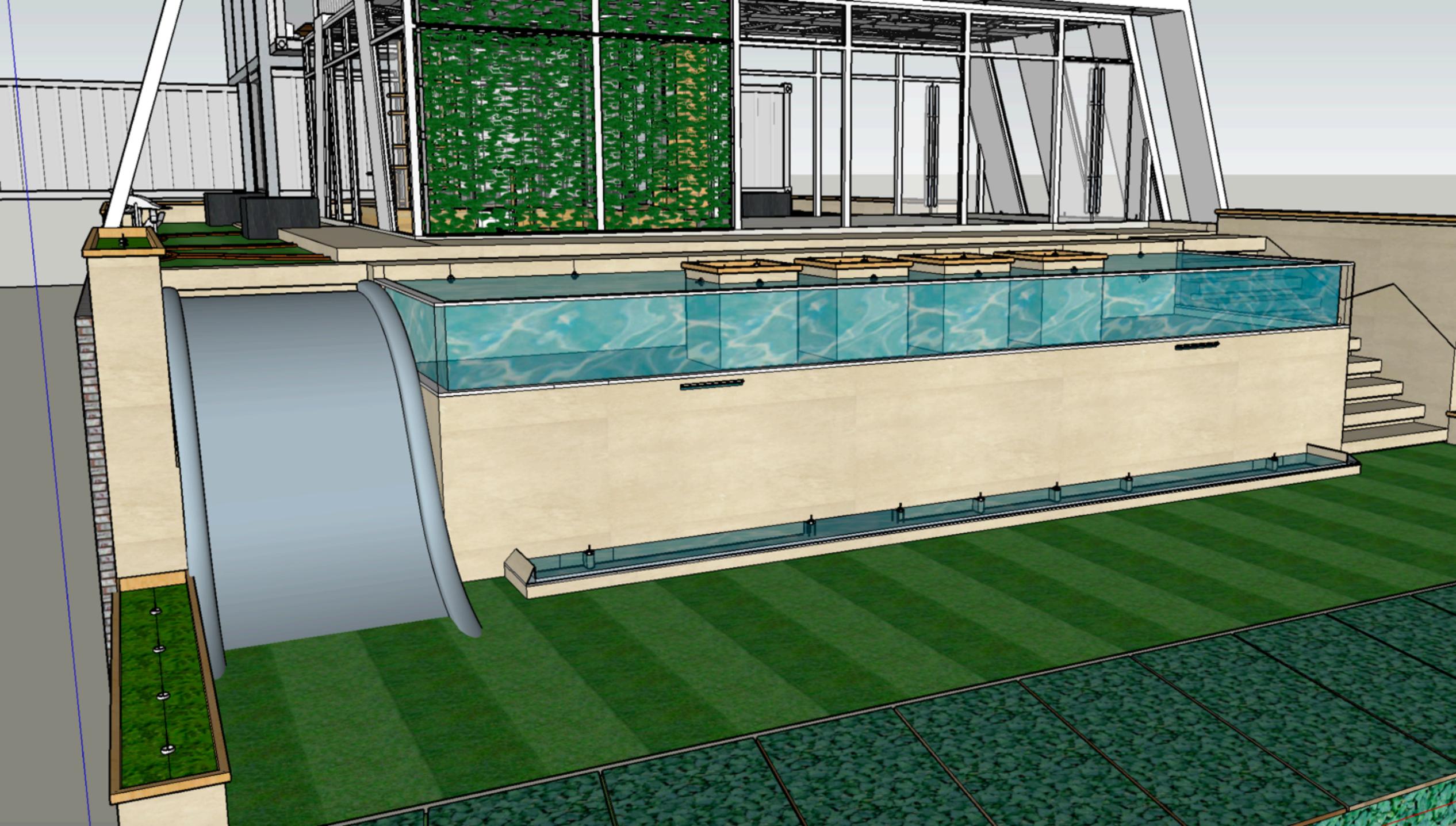


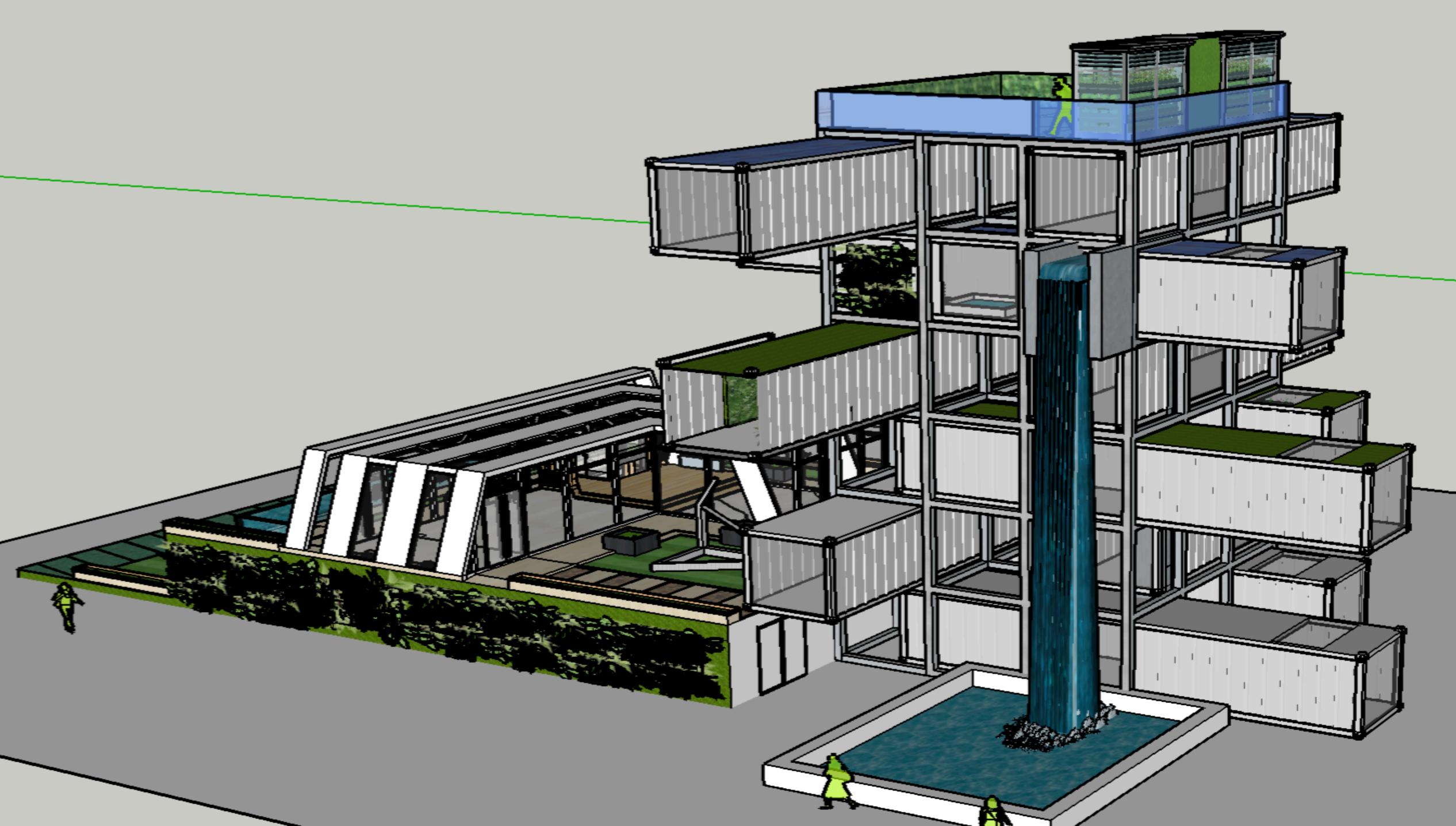


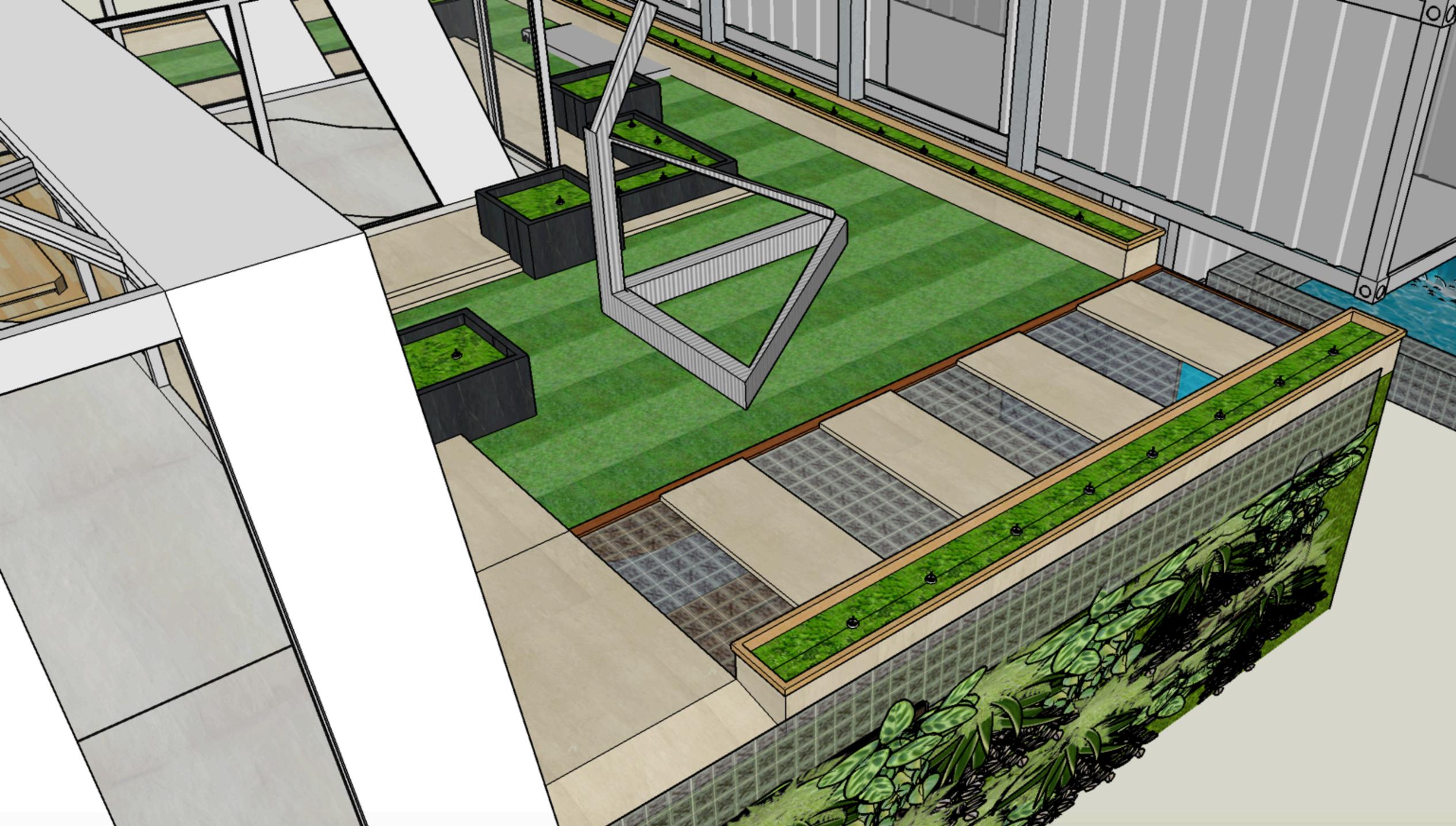


#### COMMUNITY SPACE

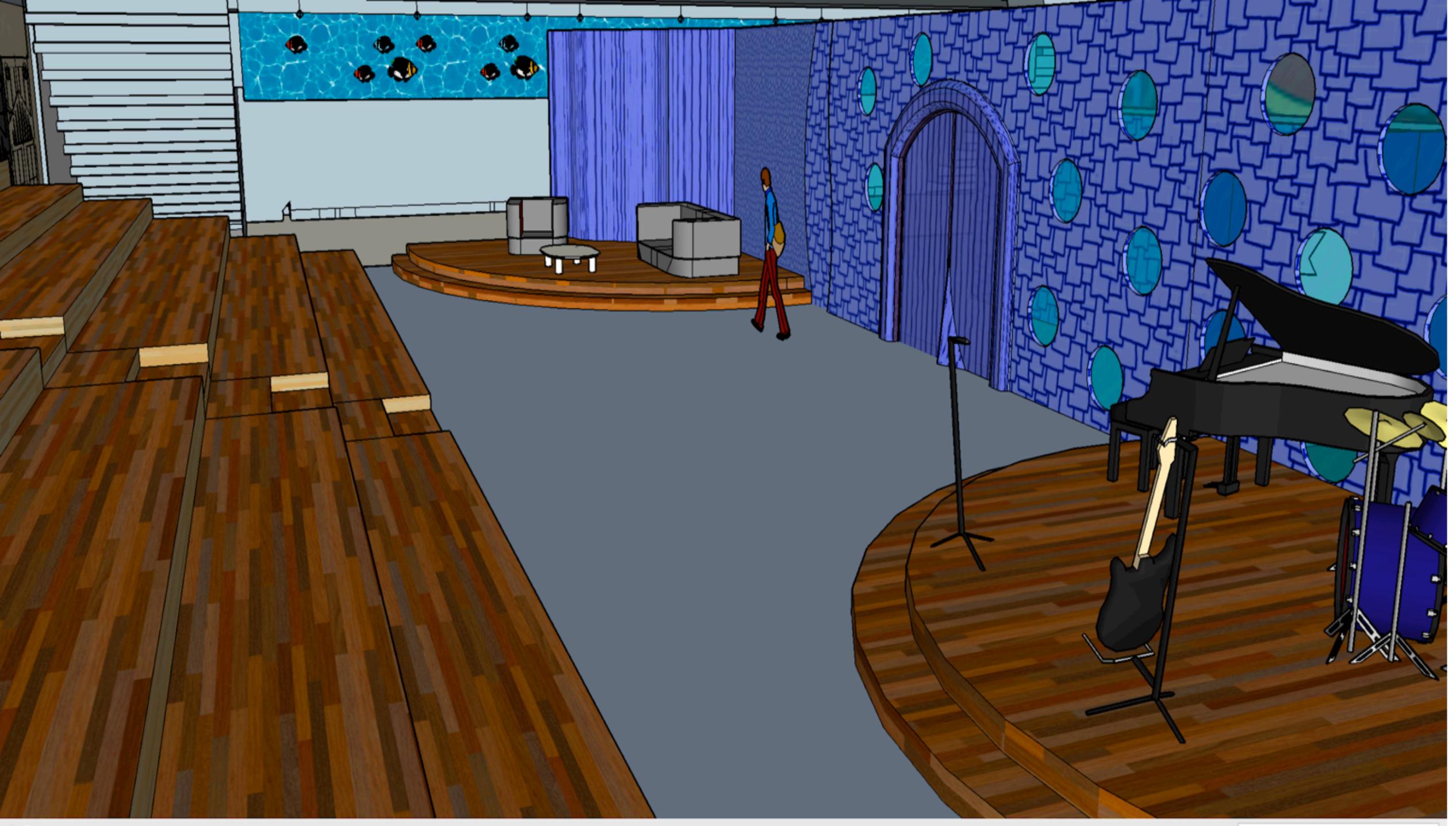


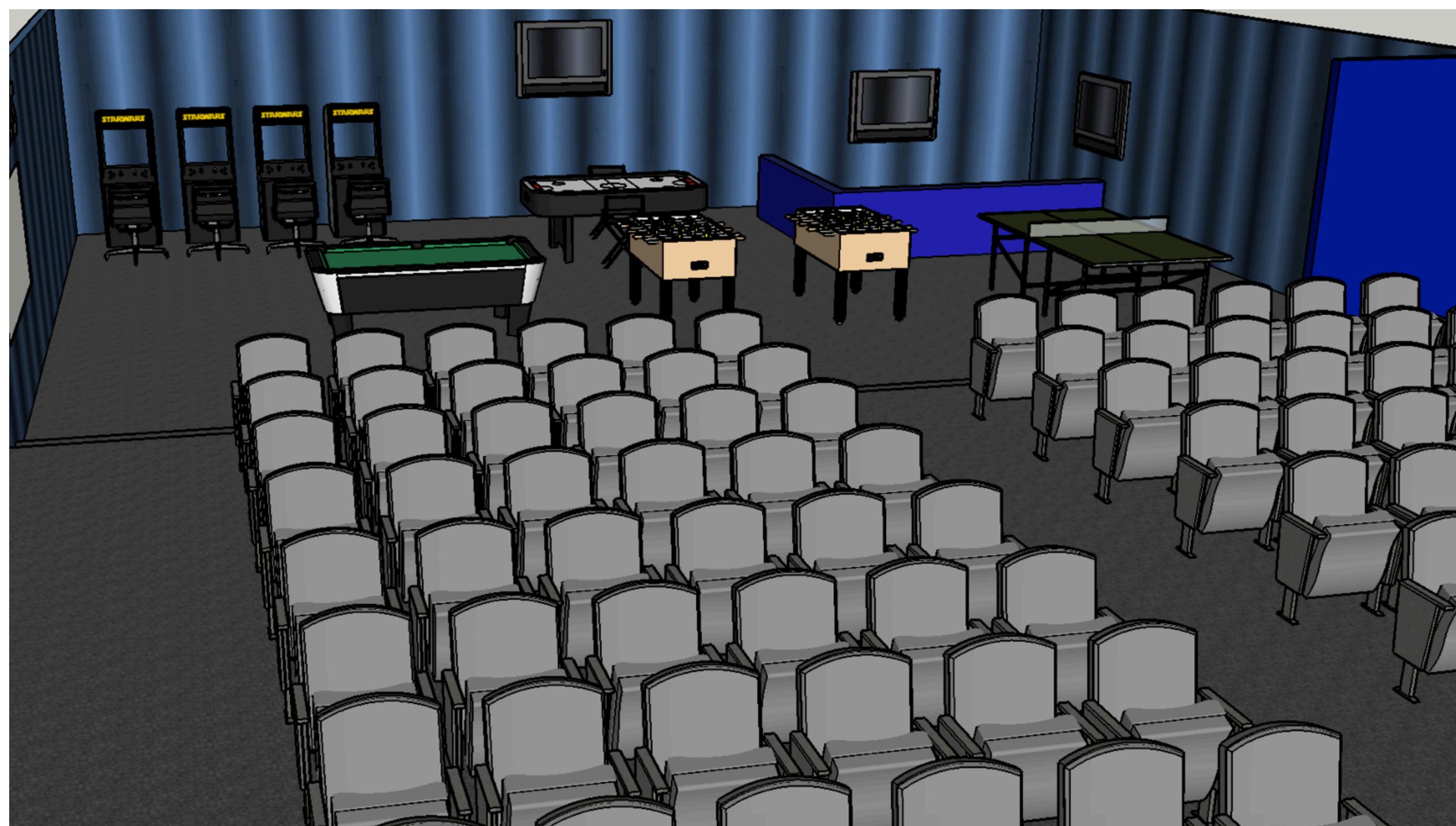














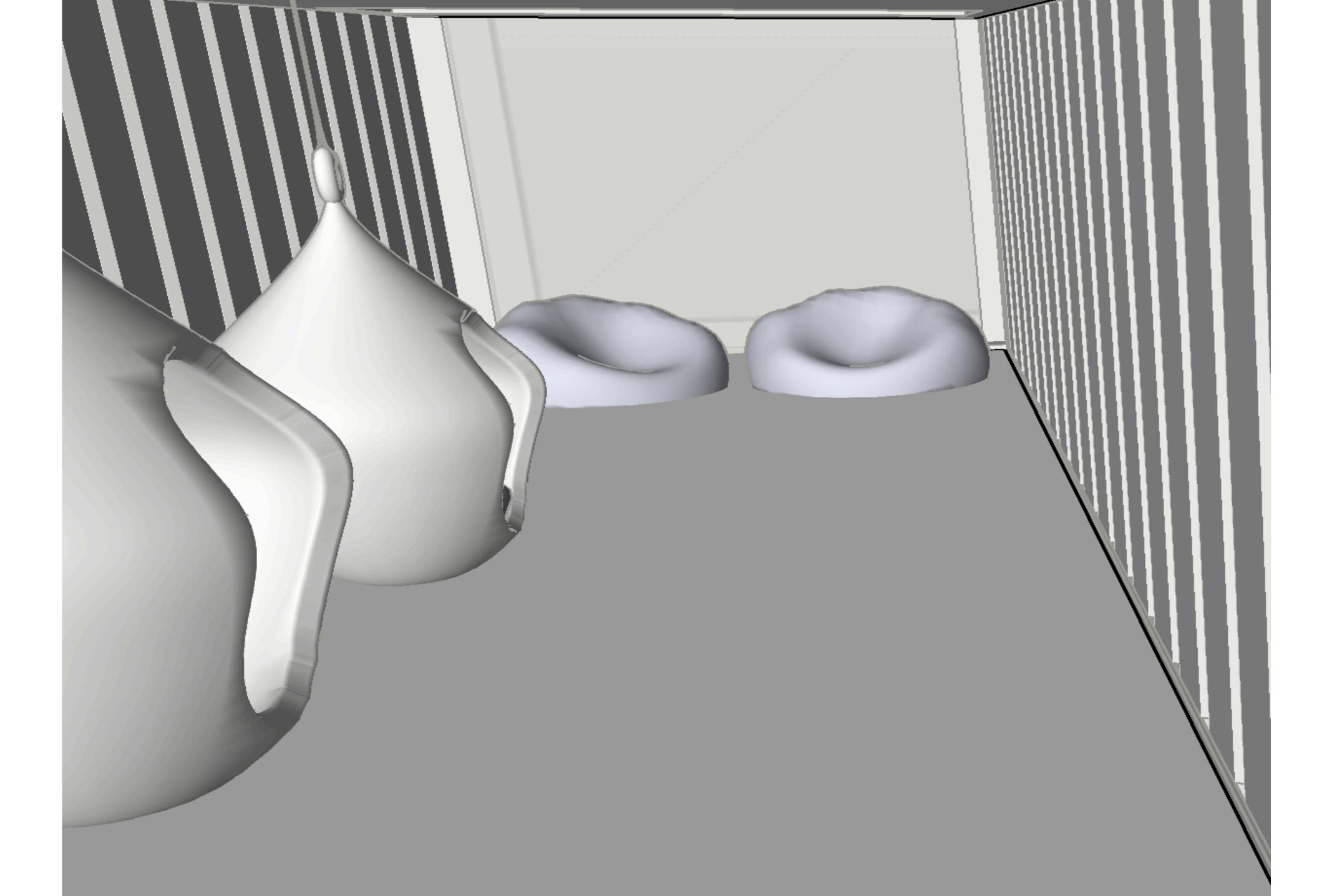
#### EARNING

#### 





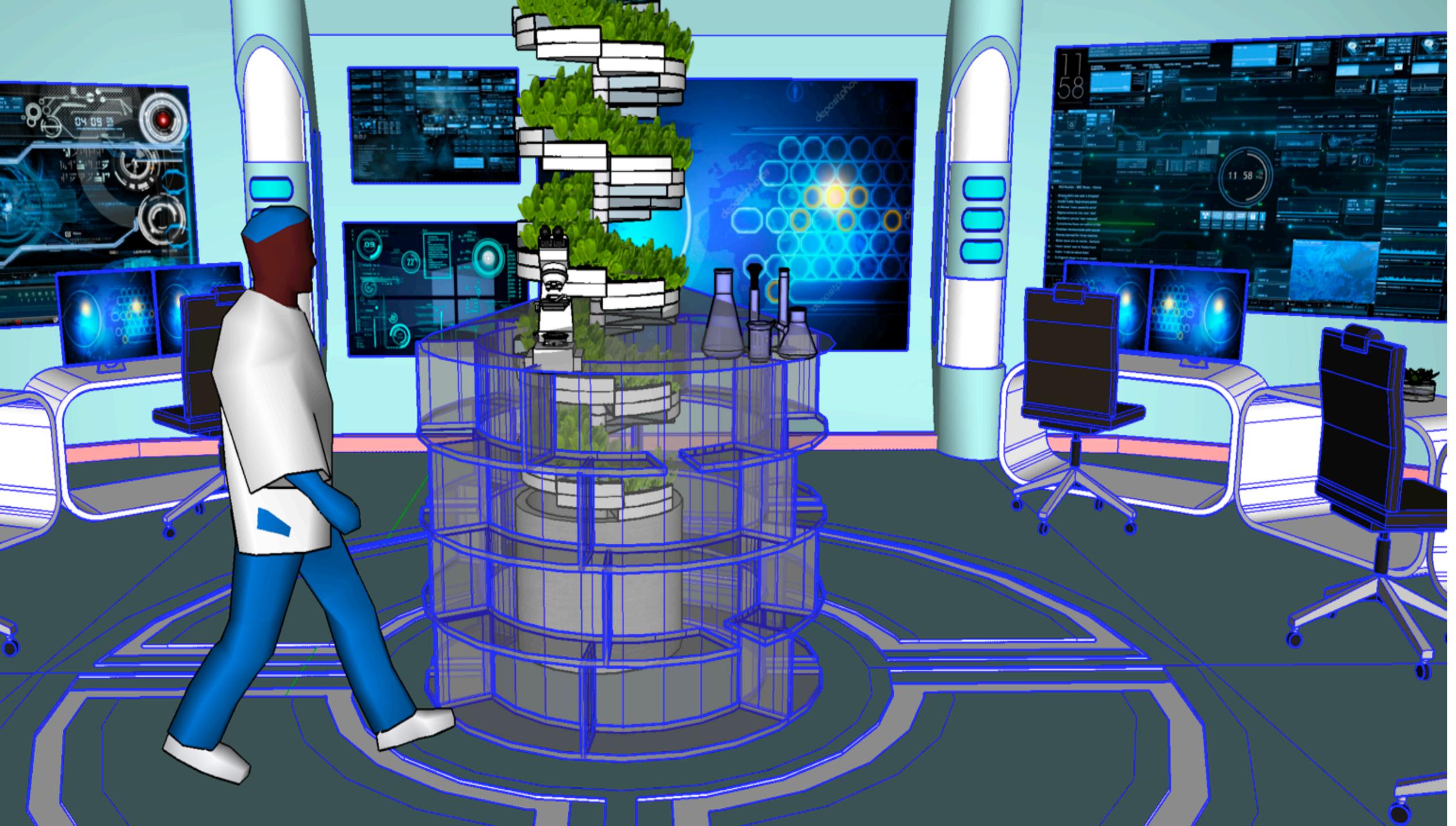


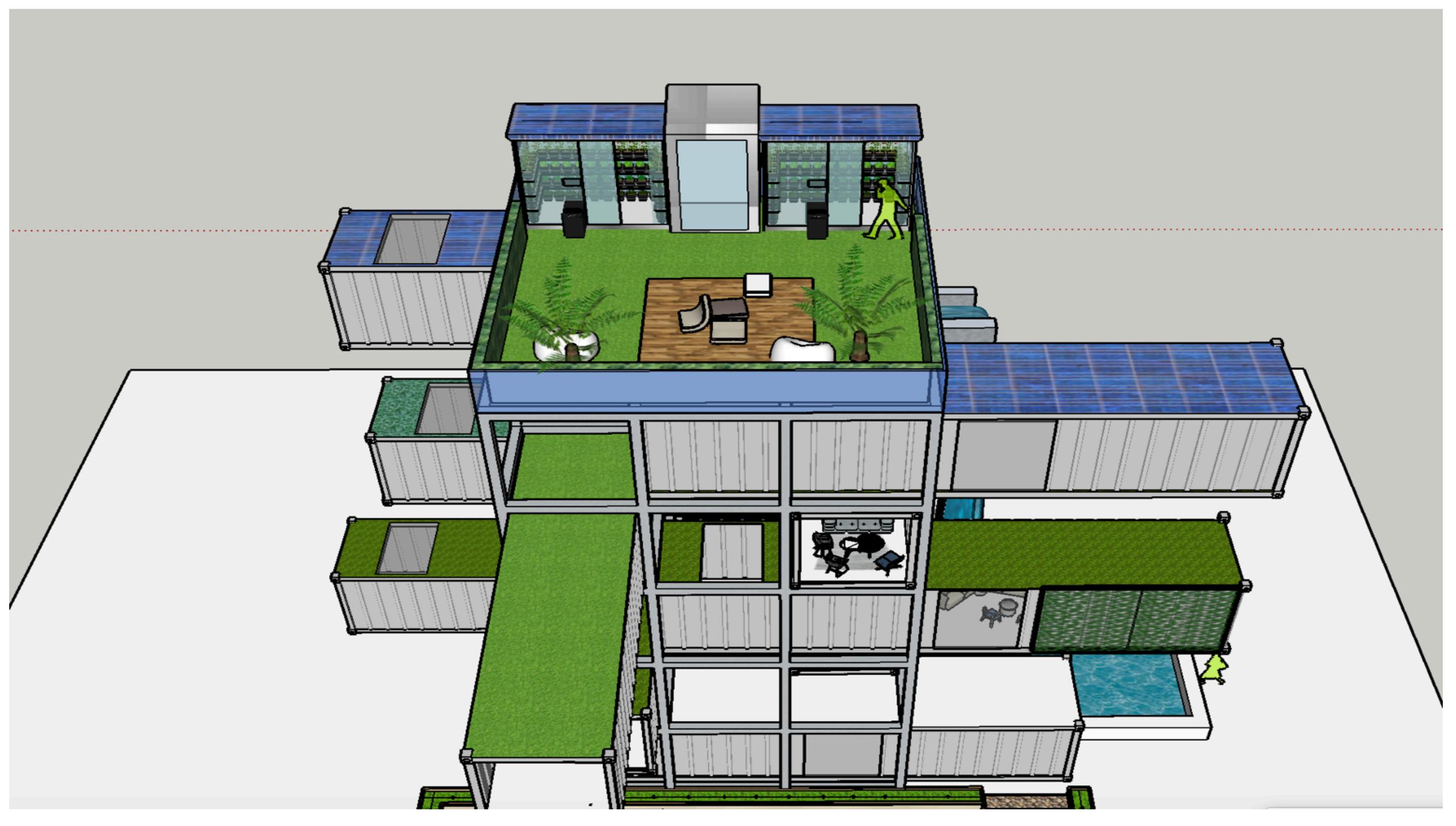




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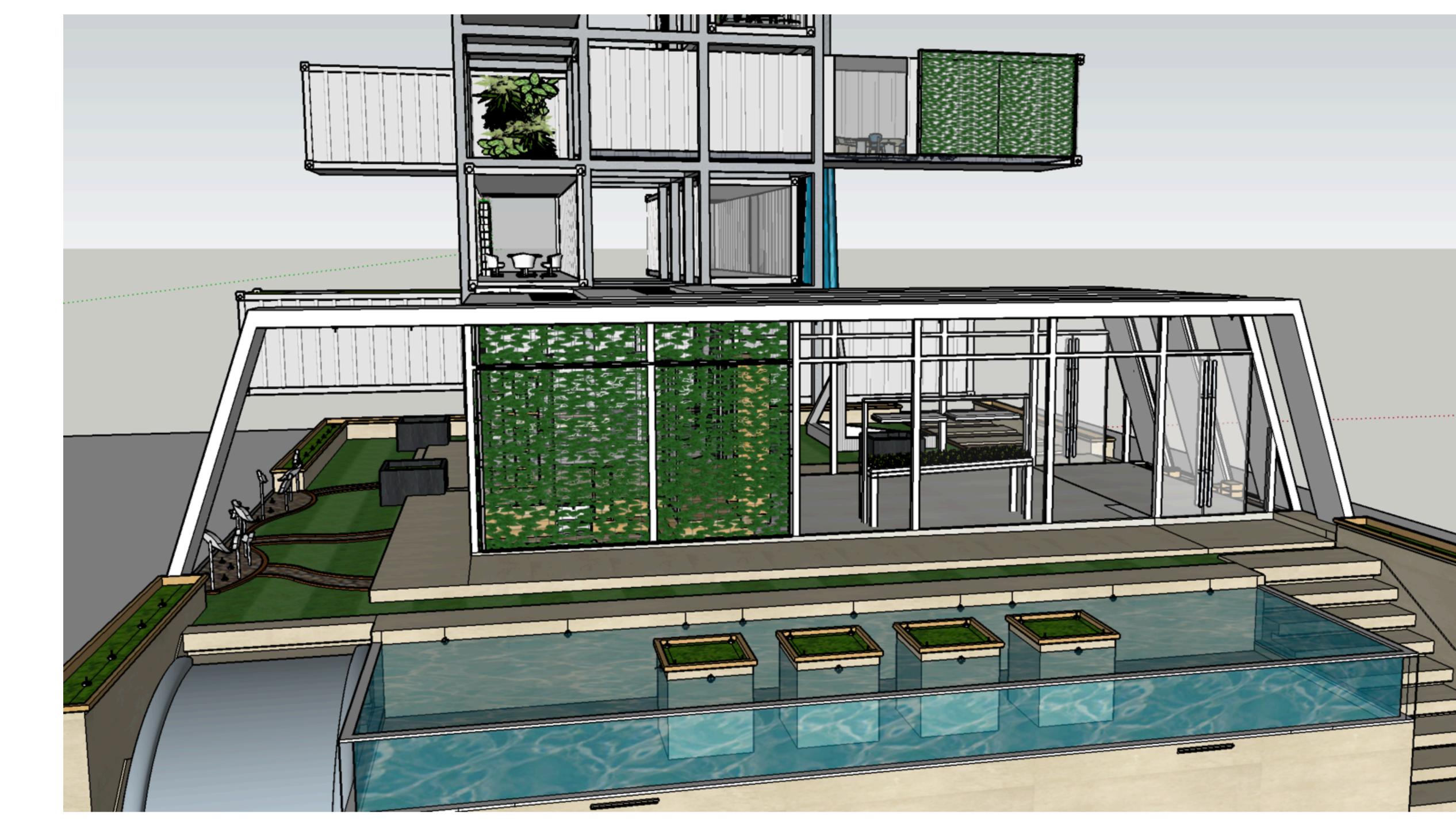
FARMING

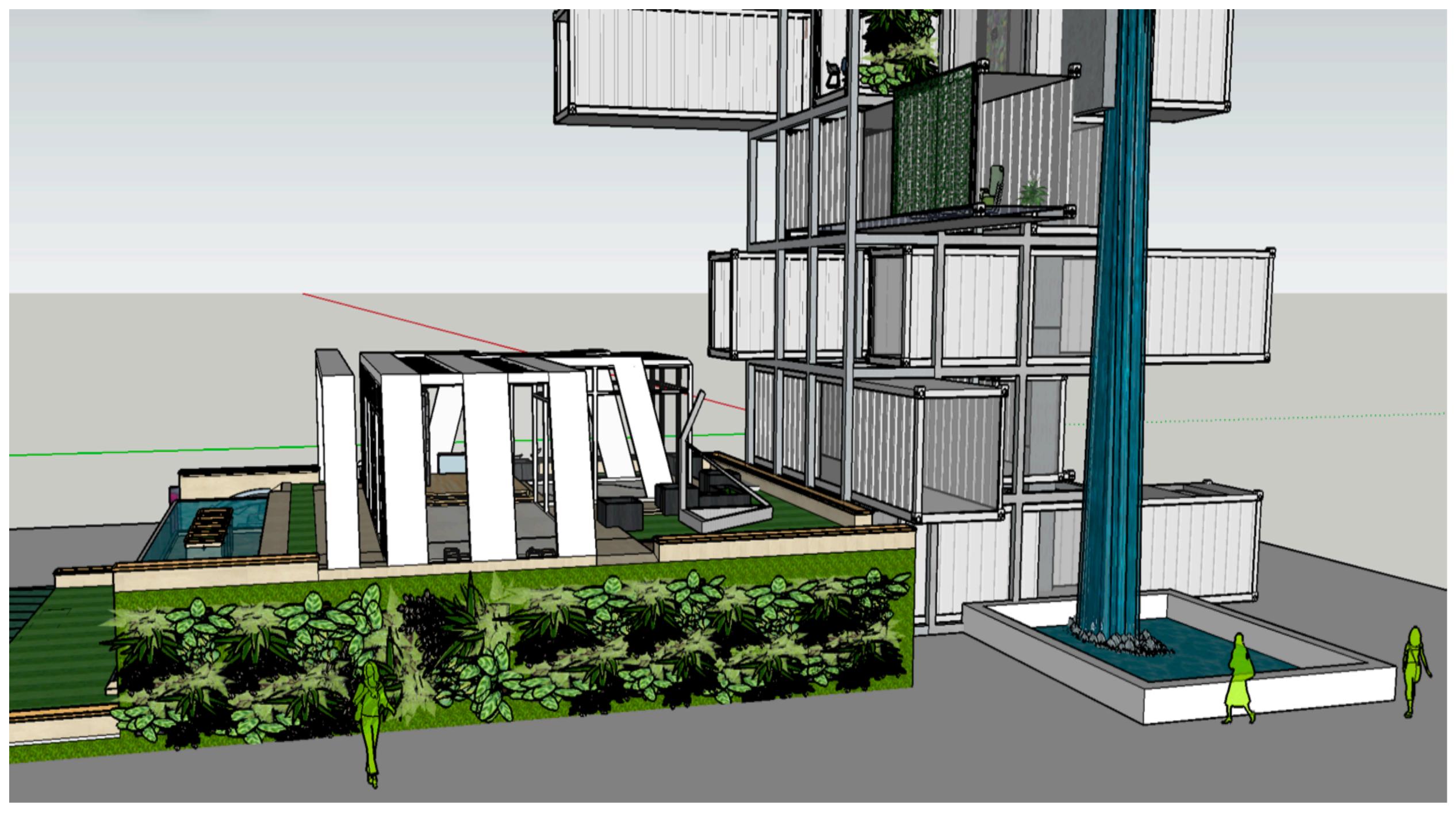












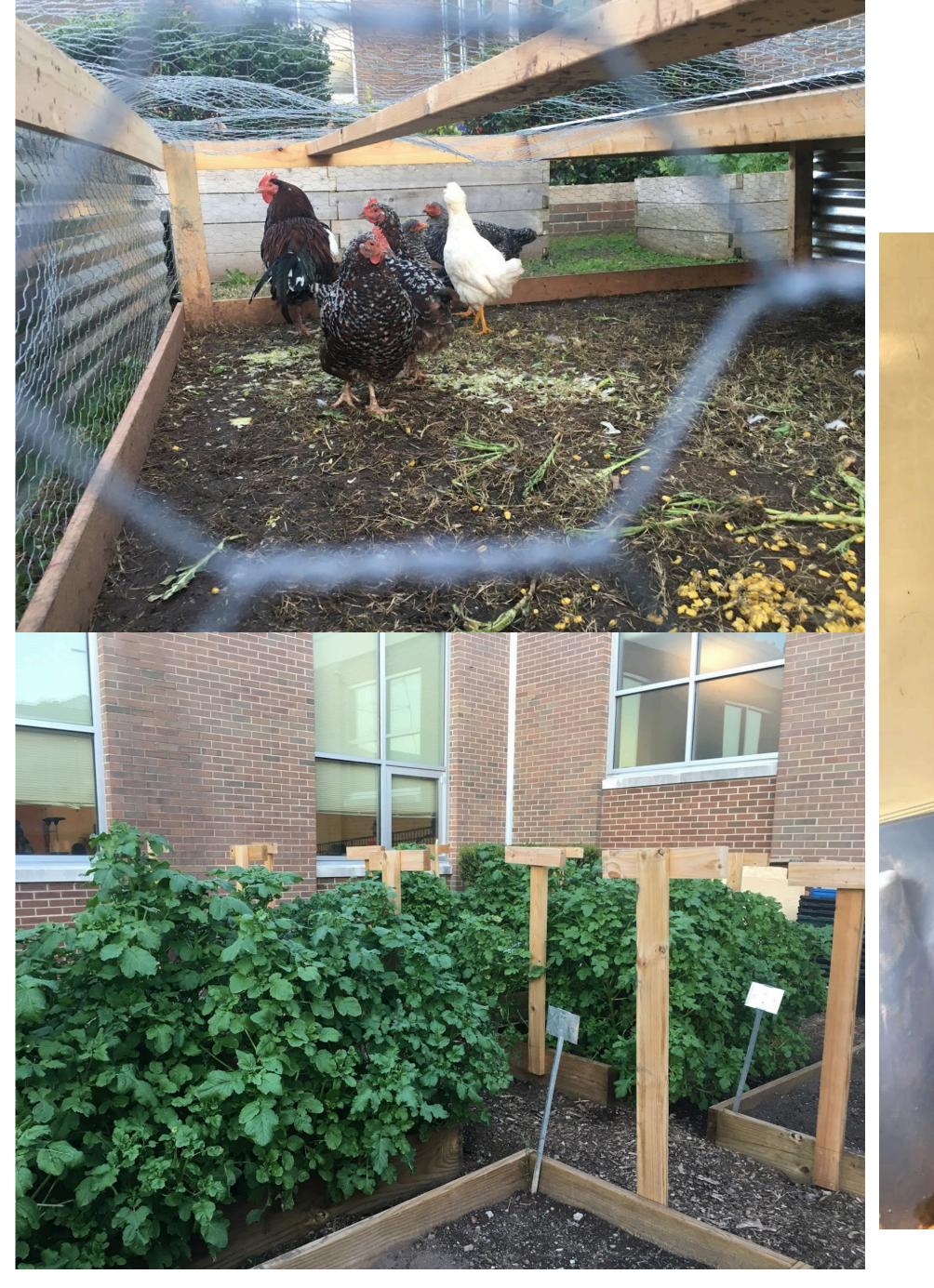






## LOOKING BACK

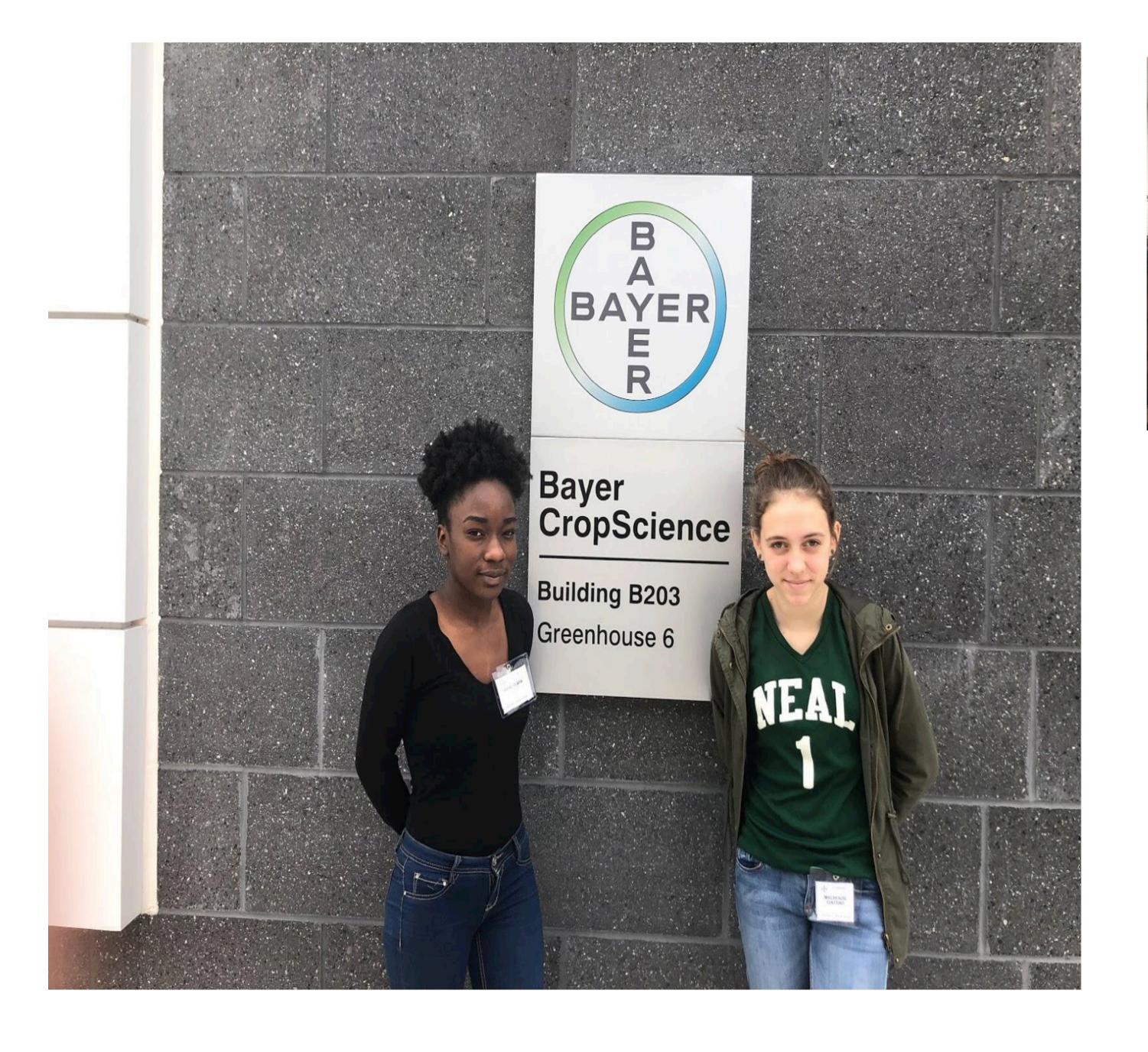




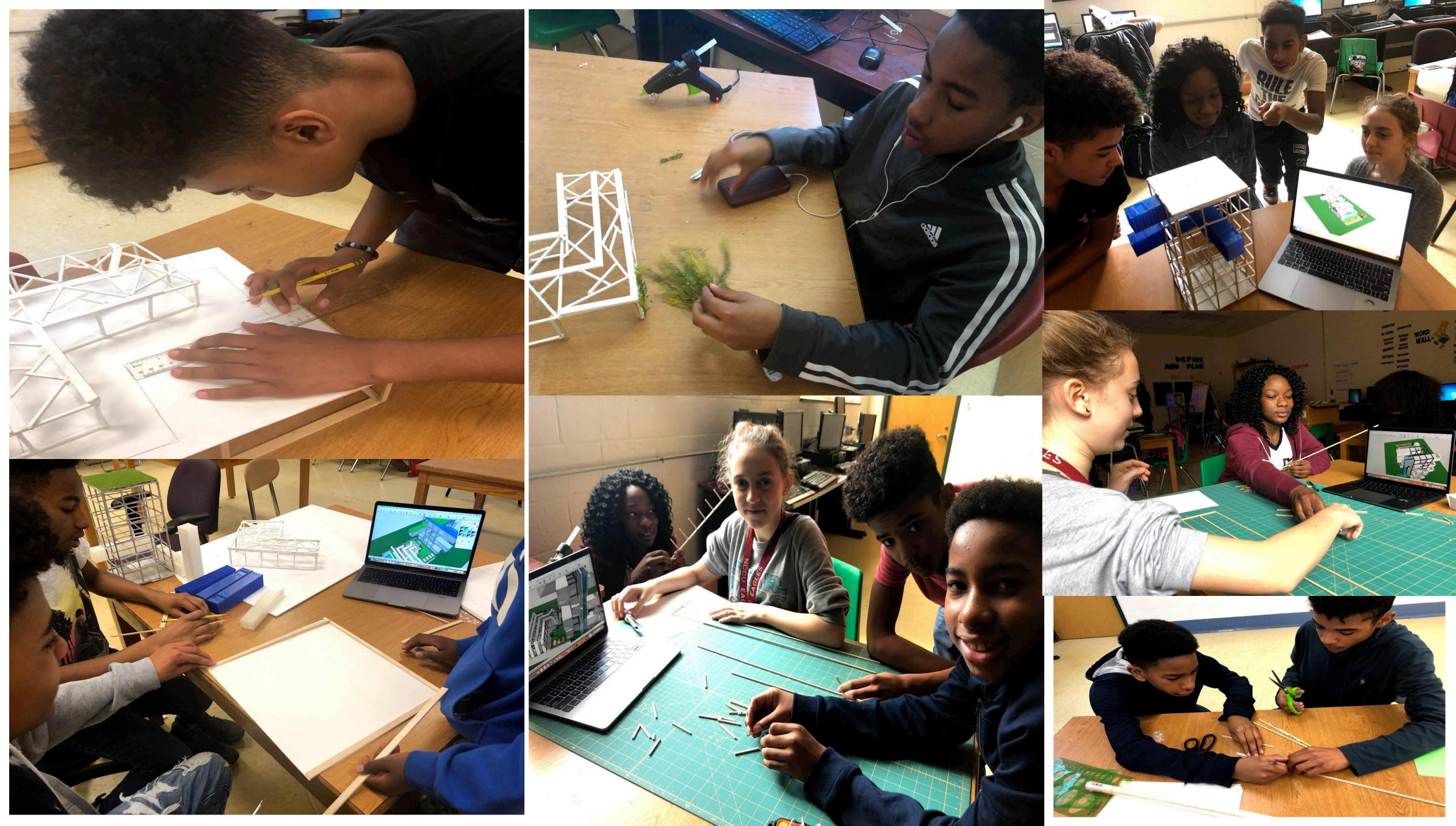


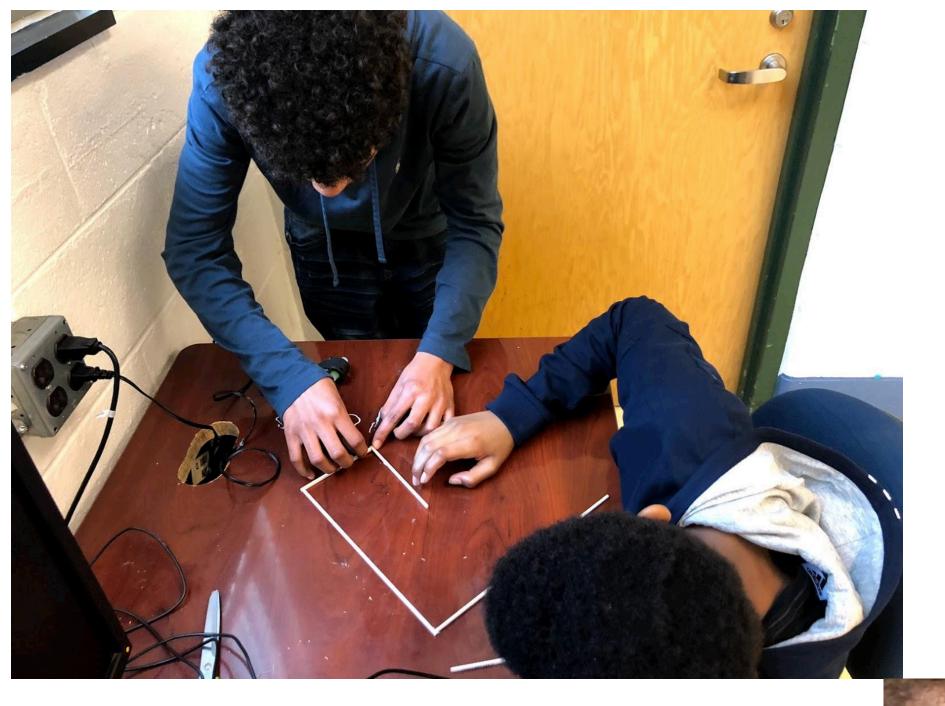


NH8 Culinary

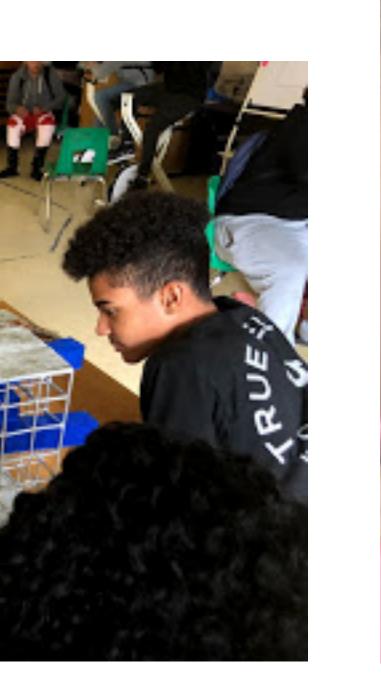




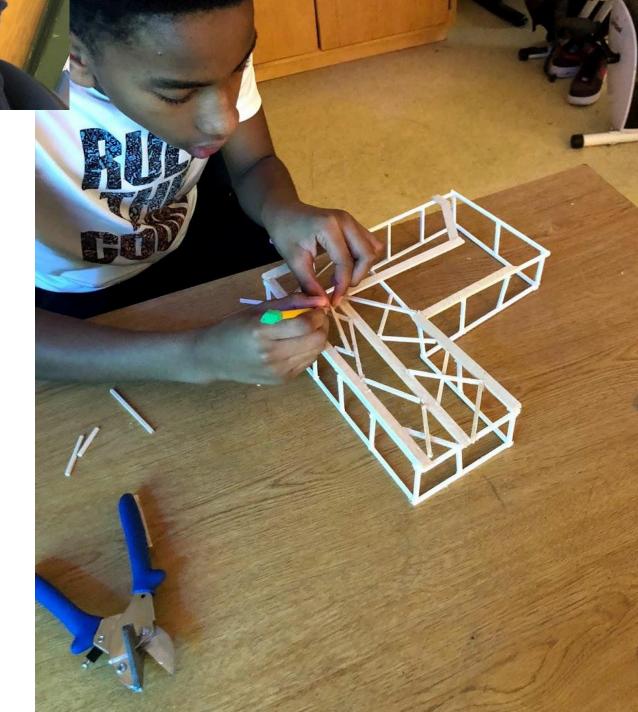






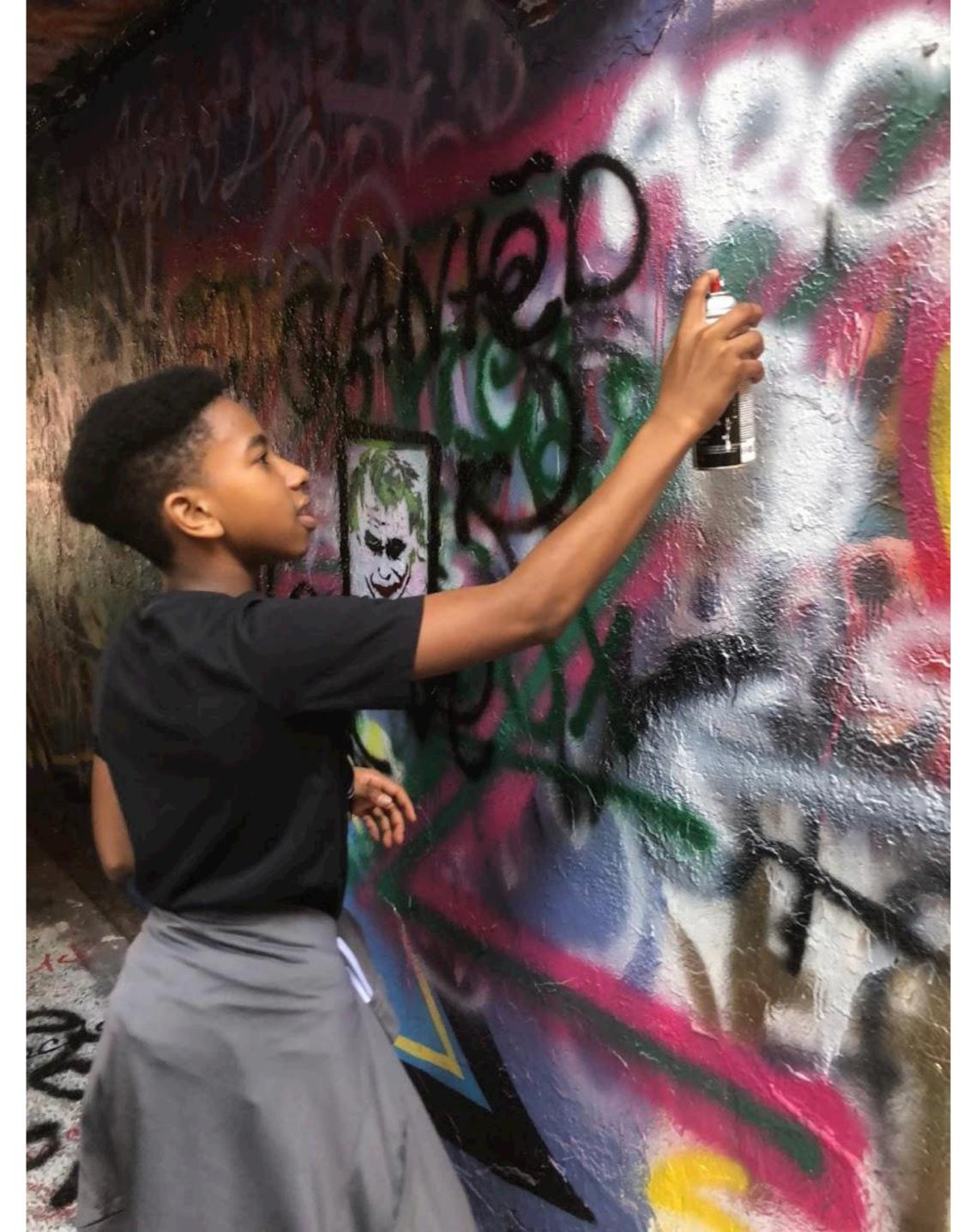
















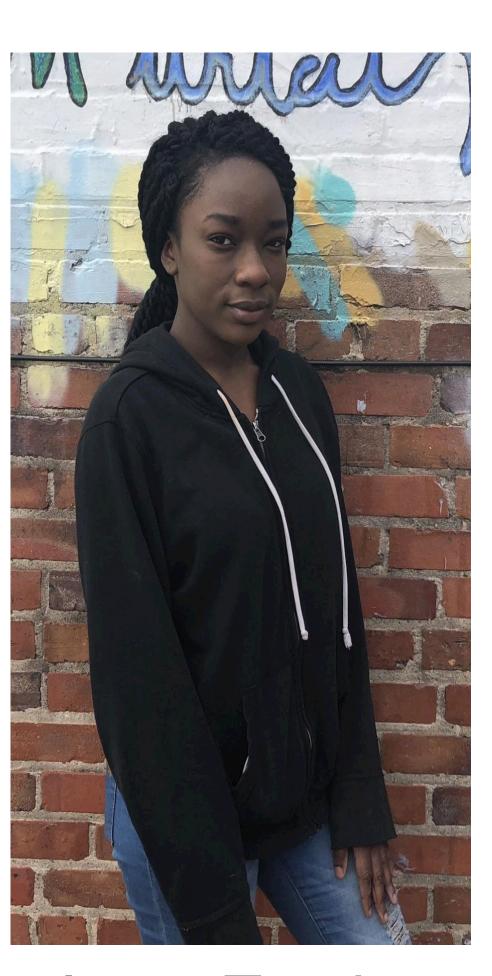


#### The Team

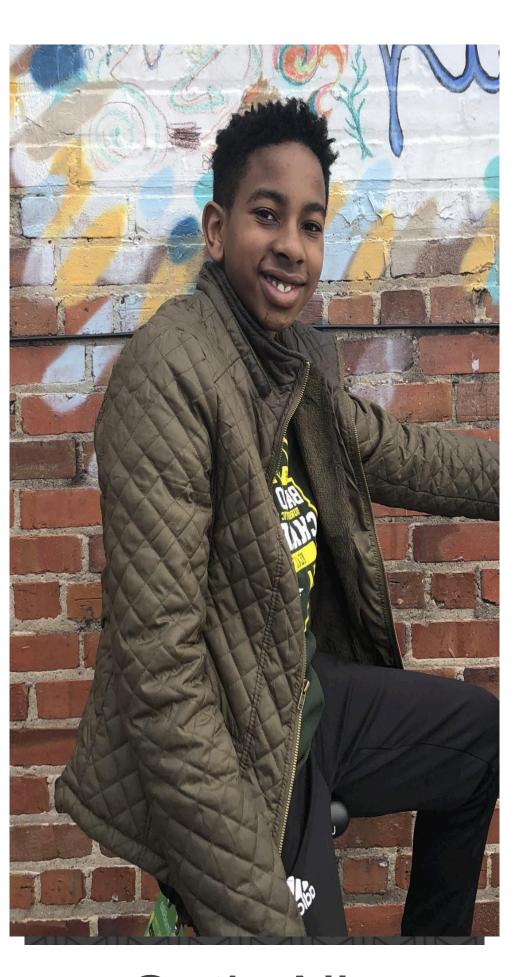


Mackenzie

Archiecte Prigner



Irene Tamba
Engineer & Designer



Seth Allen
Research & Agriculture



Mikal Ali Project Manager

# DREAM EXPLORE

### QUESTION