

SUMMIT PUBLIC SCHOOLS  
EXPERIENTIAL LEARNING INITIATIVE

THE GREENHOUSE



## THE GREENHOUSE POTENTIAL

- Opportunity for innovation and to be at the cutting edge of educational practices
- Innovative approaches to learning: experiential, enhancing cross curricular opportunities
- District STEAM
- A true environmental learning classroom
- Problem-based learning rooted in tactical solution based outcomes
- Impact on students throughout the district in a connected learning environment
- Opportunity to provide growth

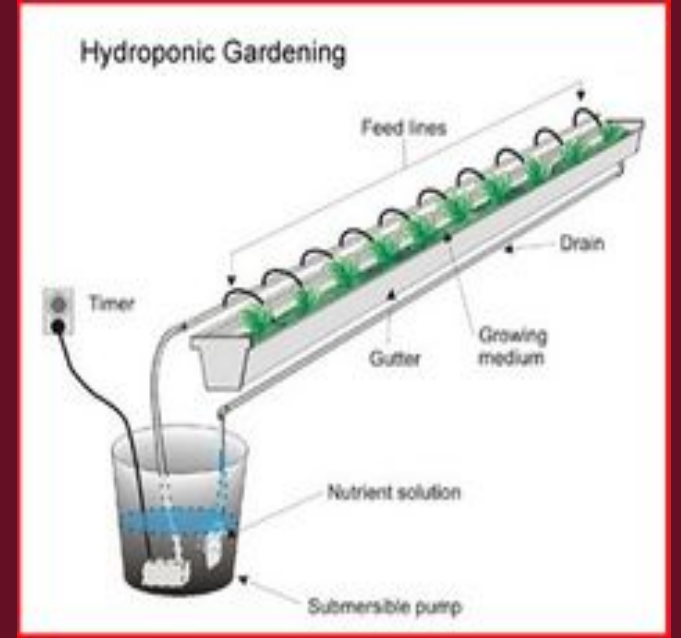
# WHAT IS A HYDROPONIC GREENHOUSE?

- The process of growing plants in sand, gravel, or liquid, with added nutrients but without soil.
- NFT Growing System
- Tower Garden
- Aquaponics Tank
- Compost Station
- Seeding Station



# WHY USE HYDROPONICS?

- Cost effective
- Innovative
- Cutting Edge
- The way of farming in the future





## WHO WILL ACCESS THE GREENHOUSE?

Core: Middle School Students  
Secondary: High School  
and Elementary Students



# WHAT IS THE PLAN?

- Year 1: Middle School
- Implement new science cycle electives
  - Grades 6/7: Risky Business
  - Grade 8: We Are What You Eat

	Monday	Tuesday	Wednesday	Thursday	Friday
8:20	Arrival and Groden Relaxation Practice				
8:45	Calendar and Current Events				
9:00	Adaptive Physical Education	Media	Adaptive Physical Education	Media	Adaptive Physical Education
9:30	Art	Home Economics	Health Education	Music	Home Economics
10:00	Speech and Communication	Internship Preparation	Community-Based Instruction	Travel Training	Social Skills Instruction
10:30	Library	Internship		Speech and Communication	Bowling
11:00				Social Skills Instruction	Community-Based Instruction
11:30	Health Education	Self-Advocacy		Computer Skills	Leisure Skills
12:00				Science	
12:30	Math	Social Studies	Math	Social Studies	
1:00	Lunch				
1:30	Reading				
2:00	Groden				
2:20 to 2:30	Classroom Jobs, Pack Up and Dismissal				

## 6-8 CURRICULUM

- Next Generation Science Standards
- Challenge Based Module Design
- STEM and Sustainability concepts
- Integrates technology



## WHAT IS THE PLAN?

- Year 1: High School
  - ✓ After school club
  - ✓ Science research class
  - ✓ AP Environmental Science and Biology



## YEARS 2-4: ELEMENTARY SCHOOLS

- K-5 Visits
- Grade 5 Curriculum
- Aligned to NGSS
- Problem-Based Curriculum





## YEARS 2-4: MIDDLE SCHOOL

- Cycle Classes Continue
- After School Club
- The Green Team



## YEARS 2-4: HIGH SCHOOL

- After School Club
- Science Research Class
- AP Environmental Science and Biology



# WHAT DO WE DO WITH THE FOOD?

- Our options:
  - Use crops for a snack program in the school
  - Teach science based nutrition and cooking classes
  - Run a student operated farm stand
  - Donate crops to teachers and families
  - Form meaningful partnerships with local senior centers, food banks and more
  - Partner with local restaurants

