



# TECHNOLOGY IN AGRICULTURE

TECHNOLOGY STUDENT ASSN.

## Empathize

AUG.

- ATL Botanical Garden
- Old Rucker Farm
  - Soil testing difficulties (only sending samples to UGA twice per year)
  - Water waste due to sprinklers

## Prototype

OCT.

- Building wood raised bed
  - Cracks on the sides
  - Unproportionate dimensions
- Building circuit system
  - Sensor shipment delay
  - Setting up Irrigation System
  - Distance from the hose
  - Placement of drip pipes for wanted coverage



SEP.

## Ideation & Design

- Design raised bed
- Decide dimensions, materials, and layout
- Establish sensor integration (NPK, pH, moisture)
- Outline irrigation system

DEC.

## Launch

- 2 mature kale plants
- 10 seeds in 3 rows of 3: kale, broccoli, onion, lettuce, basil
- 3-5 saplings planted
- Irrigation system implemented in rotations

