

Class Visit (School/Instructor) -
Date/Time

CF staff:

_ adults from _____

Approx __ students

Schedule:

5-10 min greeting, ground rules, brief intro to CF

20-30 min tour of greenhouse with aquaponics/CEA overview

40-50 min activities [Split into 2 groups]

Return to group - Discussion, Q&A, wrap up

Tour will touch on:

- What is aquaponics?
 - 3 main living systems: Plants, Fish, Bacteria
 - What are the benefits? Challenges?
- What do plants need to grow? (light, nutrients, water, structure, air, time, space)
 - Out in "nature" vs indoor growing (CEA-- "controlled environment agriculture")
 - How do we evaluate if we're providing what they need?
- How are our systems set up? (physical structure)

Activities:

Group 1:

1. Visit aquaculture room - see filtration equipment; discuss fish care, fish health, role fish play in system, challenges, temp control, WQ... etc.
2. System operation (GH)
 - a. Look at each one, explore, look for flow patterns, diagram
 - b. Which parts do what?
 - c. Where are the trouble spots? Why?
 - d. What might we need to measure and why?

Group 2:

3. WQ testing
 - a. What do we measure and why?
 - b. What are the desirable ranges?
 - c. Potentially test:
 - i. Ammonia
 - ii. Nitrite
 - iii. Nitrate
 - iv. pH
4. Plant production (GH) - explore and try to answer questions such as:
 - a. What types of plants are we growing? Why would some do better than others?
 - b. What types of media are we using for different crops and why?
 - c. What production challenges do you see? Do you see any mitigation techniques that we're implementing to try and fix them?
 - d. What equipment do we have to grow indoors, year-round (CEA)?