

The Edible Classroom

"THE GARDEN OF POSSIBILITY"

#RegencyGrows

Goals for Student Learning

- ★ Apply knowledge of measurement to measure levels of PH, ammonia, nitrite, and nitrate as well as measure plant and fish growth
- ★ Construct graphs of nutrient levels and plant growth rates
- ★ Hypothesize the impact of nutrients on plant growth
- ★ Explain how nutrient cycling (nitrogen cycling in particular) Converting Fish Waste to plant fertilizer gives a real life example of Chemistry and Microbiology
- ★ Analyze the components of an aquaponics and hydroponics system and how they function together
- ★ Compare the differences between oxygen and carbon dioxide and formulate the basic principles of photosynthesis and respiration
- ★ Investigate the basics of plant and fish life, including waste products and needs
- ★ The Earth's environment sustains all life focuses on developing students' understanding of sustainability which is about the ongoing capacity of the environment to sustain human life and well being
- ★ Apply the concepts of Engineering, Design, and Construction from the system itself
- ★ Connect business, economics, and entrepreneurship to food production
- ★ Analyze the life cycle of plants and animals teaching biology and ecosystems