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## Aquaponics Ideas for PK-12 classrooms Building upon loponics Lessons

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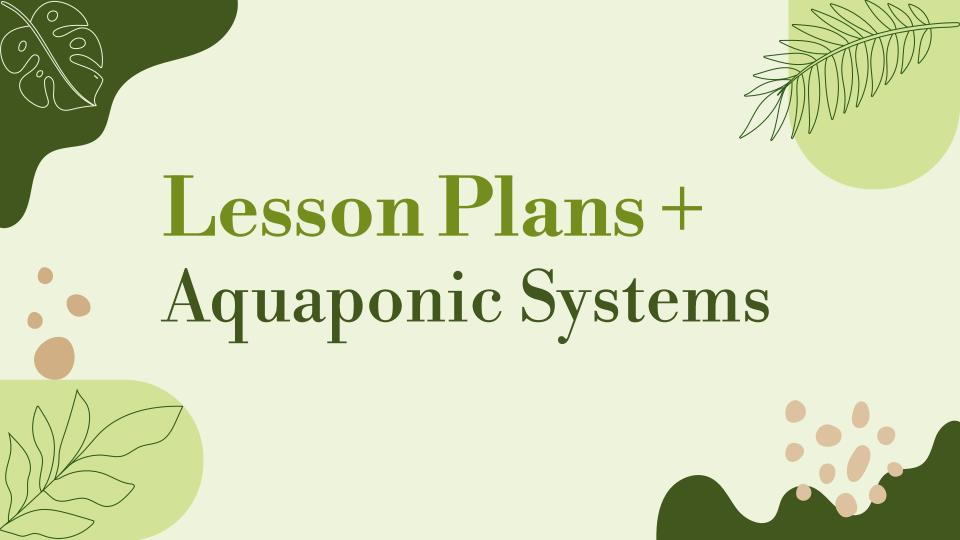
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## Rose Larson

- 2nd year Elementary Education Major
- Special Education Endorsement
- Aquaponics research

#### **Kate Heithoff**

- 1st year Elementary Education Major
- Science and Reading Endorsement
- Aquaponics research



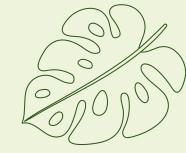


wartburg college logo - Bing images



- Successfully grow food in a 1+3 gallon Aquaponic System.
- Provide lesson plans teachers can easily incorporate into their classrooms.
- Make aquaponics accessible to everyone.
- Implement Ioponics in Iowa Schools.

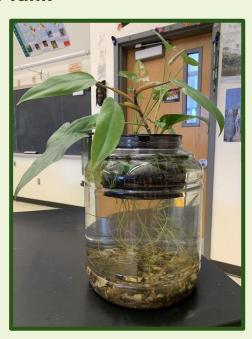




## What is Aquaponics and Ioponics?

**3 Gallon Tank** 





40 Gallon Tank



# Aquaponic Benefits

### **Green House Tank**



60 Gallon Tank











**Tomato** 

**Pineapple** 

**Spinach** 



- Guppy Life Cycle
- Fish Camouflage





- The Food Chain
- Photosynthesis and Cellular Respiration









- Intro to Aquaponics
- Animal and Plant Cell Comparison









You can take Aquaponis anywhere! In your classroom, homes and communities!





Link to our 1gallon
instructions on
how to make your
tank!







# THANKYOU!

