Aquaculture in Action

TOOLS FOR TEACHING SCIENCE

@ Maryland Sea Grant

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Project-Based Learning @ MD Sea Grant

"Effective project-based learning in the classroom is guided by university research, applied environmental science, technology tools, and high quality teacher professional development"

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Strategic Planning and Science Literacy

Key Drivers

- Need for *Project Based Learning* in the classroom to address critical thinking
- Identify the *literacy* skills (Claim-Evidence-Reasoning)
- Integrating research into the classroom
- Pilot projects and a timeline (2-3 yrs)
- Instructional strategies aligned with standards-Next Generation Science Standards

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A Science Literacy Narrative

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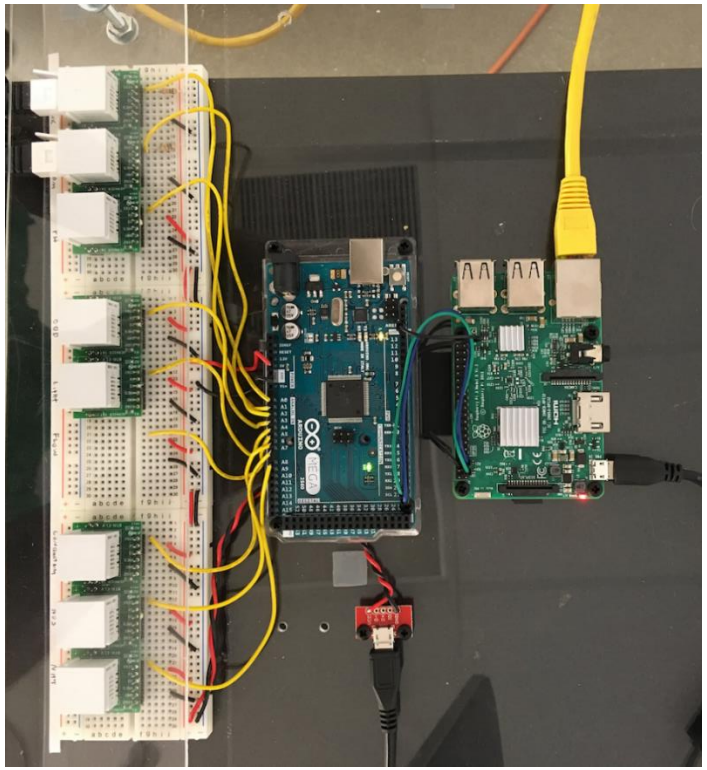

- Technology integration
- Hands-on science
- Long-term research and data collection
- Raise and release native species

https://www.mdsg.umd.edu/topics/k-12-aquaculture-education/k-12-aquaculture-education

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Baltimore Polytechnic Institute- PolyPonics System

The PolyPonics (PPS) micro-computing system was designed to measure water quality in RAS via was shared with the Sea Grant Education Network in the summer of 2019. It now has the potential to assist in the development of other successful aquaculture education programs in 12 additional states in the U.S. and Puerto Rico.

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Questions?

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