



Beyond the Classroom Aquarium: A Curricular Sequence of 14 Project Based, Stem Oriented Aquatic Ecosystem Themed Learning Activities Your Students Will Love

Robert M. Jakus

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The book, *Beyond the Classroom Aquarium (#BtheCA)* is a challenging & innovative curricular sequence of project based, STEM-oriented, aquatic ecosystem themed learning activities. Some consider it an inspirational anthology of classic aquatic Ecosys-STEM themed learning activities. In #BtheCA, Technology, Engineering & Math do not take a "back seat." Although aquatic ecosystems provide a strong/engaging theme - opportunities to apply & assess student proficiencies in engineering, design, technology, math, communication, art, & performance of real-world problem analysis & resolution are abundant. Educators & students who use it are also provided ongoing guidance & encouragement as they collaborate on the sequence of innovative real-world aquatic ecosystem themed design thinking/maker projects. Each project description in #BtheCA is designed for use as a guide by which educators may modify any given project & corresponding assessment strategy to best meet the needs of his/her own students. Some educators will select to implement a limited number of #BtheCA projects each year. With careful advanced planning, others will successfully implement the entire sequence of projects with their classes during a school year. *Beyond the Classroom Aquarium* projects allow educators to:

- Introduce their students to computer automation and microcontroller technologies
- Involve students in the processes of system design and critiquing
- Expose students to a multiplicity of skilled trades (carpentry, electronics, plumbing, microcontrollers, and beyond)
- Refer to an extensive bibliography of resources containing a veritable "bucket list" of projects - replete with opportunities - for hundreds of additional collaborative aquatic ecosystem themed learning activities
- Align timely and appropriate field trips
- Establish and maintain an individualized math lab
- Coordinate student work in the math lab with aquatic ecosystem project assessments
- Include many resources and activities to their own professional development goals and professional development network
- Educational leaders and administrators may wish to adopt a #BtheCA theme for their own class, school or district
- Participate in a weeklong professional development workshop to address such interests has been designed by the author.
- Utilize the flexibility and "scale-ability" of *Beyond the Classroom* projects as an ideal curricular format for non-traditional and non-formal learning environments for individuals involved in after school programs, clubs, home schooling programs, or while participating in a program at a residential camp.
- Encourage students to remain engaged in their aquatic ecosystem themed learning projects throughout the year #BtheCA is designed to make a difference in every student's life (& teacher's too). It is intended to be used and to deliver fun - every day. This curricular sequence of project based, STEM-oriented, aquatic ecosystem themed learning activities has taken the author twenty years to compile, synthesize and write. Educators & kids can do this! :-)

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