

**Elizabethtown Area School District
Scope & Sequence - Quick Reference**



Department: Agriculture Education

Course: Aquatic Resources

Grade Level(s): 10-12th Grade

<i>Unit Title</i>	<i>General Topic(s)</i>	<i>Pacing</i>
1. The Water (Hydrologic) Cycle	<ul style="list-style-type: none"> ● Parts and flow of the water cycle ● Watersheds in PA and beyond <ul style="list-style-type: none"> ○ Watershed Project ● Properties of water <ul style="list-style-type: none"> ○ Water Lab ● Water in our lives 	3 Weeks
2. Creek, Stream, and River - Anatomy, Relationships, and Flow	<ul style="list-style-type: none"> ● Similarities/Difference ● Parts of a Stream (Anatomy) ● Characteristics and Species Diversity ● Human Interaction 	1 Weeks
3. The Aquaculture Industry	<ul style="list-style-type: none"> ● History of Aquaculture ● Types of Aquaculture Systems ● Size/Scope of Aquaculture ● Food Production and Aquaculture Products ● Consumption Trends ● Economics of Aquaculture 	2 Weeks
4. The Aquatic Environment	<ul style="list-style-type: none"> ● Water Quality ● Water Pollution ● Sources and Suitability of Water ● Water Management Practices ● Water Testing/Analysis ● Water Calculations (Volume, Area, Flow Rates, etc.) 	4 Weeks

<p>5. Fish Biology and Management</p>	<ul style="list-style-type: none"> ● Aquatic Species Biology ● Taxonomy of Aquatic Species ● General Habitat Requirements/Considerations ● Genetics and Improved Species (Hybrid) ● Nutrition and Feeding ● Aquatic Organism Health and Care ● Catfish Production Project ● Trout in the Classroom Project 	<p>4 Weeks</p>
<p>6. PA Aquatic Species (In-Depth Study)</p>	<ul style="list-style-type: none"> ● Identification, Habitat, Life Cycle, and Growth of the following: <ul style="list-style-type: none"> ○ Coldwater Fish of PA ○ Cool-Warmwater Fish of PA ○ Migratory Fish of PA ○ Panfish of PA ○ Salamanders of PA ○ Frogs/Toads of PA ○ Snakes of PA 	<p>4 weeks</p>