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| Grade Level/Course: 5 th Grade | | Concepts: Wetlands | |
| Area of Emphasis/Topic/Theme/Unit: Wetland ecosystems: acid precipitation, biodiversity of wetland plants, wildlife and human benefits from wetlands (water purification) | | Suggested Teaching Time Frame: 1 quarter, preferably Fall | |
| BIG IDEA – by the end of this course of study students will: Describe characteristics of a healthy wetland ecosystem, compare and contrast healthy and unhealthy wetland ecosystems, describe acid precipitation and identify potential effects of acid precipitation on aquatic organisms, compare and contrast a variety of wetland plants, list ways that wetlands purify water and describe why water purification is important to humans. | | | |
| What? | How will you know? | How will you get there? | |
| Standards/Benchmarks | Assessment of Standards Assessed | Learning Strategies/Activities | Resources |
| <p>Acid Precipitation: Environmental: A3, A4, B1, B2, B3, B4, B5, B6, C2, C3 Science: 5.B1.6, 5.C1.8, 5.E1.1</p> <p>Acid Precipitation and Plants: Environmental: A3, A4, B1, B2, B3, B4, B5, B6, C2, C3 Science: 5.B1.6, 5.C1.8, 5.E1.1, 5.F1.10, 5.F1.11</p> <p>Water Purifier #1: Environmental: A2, A3, A4, B1, B3, B5, B6, C1, C2, C3 Science: 5.B1.3, 5.B1.6, 5.C1.8, 5.F1.10, 5.F1.12, 5.H1.1</p> <p>Water Purifier #2: Environmental: A2, A3, A4, B1, B3, B5, B6, C1, C2, C3 Science: 5.B1.3, 5.B1.6, 5.C1.8, 5.F1.12, 5.H1.1</p> <p>Water Plants: Environmental: A3, B1, B2, B3, B6, C3 Science: 5.C1.8, 5.F1.10, 5.F1.11</p> | <p>Acid Precipitation: pH tests of rain water, pond and stream water, effects of acid rain on solid rock structures experiment, completion of acid rain activity sheet</p> <p>Acid Precipitation and Plants: Completion and analysis of effects of acid precipitation on plants experiment</p> <p>Water Purifier #1: Observation and analysis of pollution absorption experiment and completion of water purifier # 1 activity sheet</p> <p>Water Purifier #2: Observation and analysis of wetland plant filtration simulation and completion of water purifier #2 activity sheet</p> <p>Water Plants: Completion of water plant data table and collection analysis activity sheet</p> | <p>Acid Precipitation: Pollution simulation, pH tests of common substances</p> <p>Acid Precipitation and Plants: Effects of acid precipitation on plants experiment</p> <p>Water Purifier #1: Pollution absorption experiment</p> <p>Water Purifier #2: Wetland plant filtration simulation</p> <p>Water Plants: Collection of aquatic plant specimens</p> | <p>Acid Precipitation: Project wild Aquatic pg 142, The Stream Scene pgs 119, 127</p> <p>Acid Precipitation and Plants: NSRC Plant kit</p> <p>Water Purifier #1: Discover wetlands pg 65</p> <p>Water Purifier #2: Discover Wetlands pg 65</p> <p>Water Plants: Project Wild Aquatic pg 12, Always a River pg 53</p> |
| Area of Emphasis: Wetland Ecosystems | | Big Idea #: Wetlands | |