

Properties of Water Lab

Cross Curriculum Application

**Cross Curriculum	Family Consumer Science	Cosmetology: Duty F (Explain the pH scale) describe the pH scale and values associated with water, Family and Consumer Science: Measure liquid supplies (1.4.16), Practice and distinguish situations that require immediate hand washing when working with food (2.3)1.4.14), Food and Nutrition: Describe effect of nutrition on health and body mass (water content) (1.414).
	Agriculture	Agriculture Science: Explain the importance of soil and water conservation (Science Skill)(6.3), List Natural resources and describe their importance (6.2), Aquaculture Biology: Name and describe body systems of aquatic species (habitat, nutrition, adaptation to environment)(2.4), Circulatory/Respiratory (water quality)(2.6), water importance in aquaculture (4.2.1), Describe water cycle (4.3.1), Quality of water (4.4.1, 4.4.2), Water quality factors (4.10.1, 4.10.2), Impact of oxygen, temperature, pH, and hardness on water (4.11.1, 4.11.2, 4.11.3), Factors that affect dissolved oxygen (4.12.1, 4.12.2, 4.12.3), Water Quality: Water quality characteristics (5.2), Physical/Biological characteristics of H ₂ O (5.3).
	Health	Understand the part water plays in maintaining a healthy body both internally and externally. Understand the importance of appropriate hydration in maintaining health. (N.7.HW.5), Identify ways diseases are transmitted (water-borne) (DP.2.HW.3), Water quality and its influence on the health of the community (CHP.3HW.6).
	PE	Engage in health-enhancing activities that promote improvement in body composition (water) (HRF.2.PEL.2)
	Media	Students can research real world water issues in newspapers and magazines. The Futures Channel - Water Tanks The Futures Channel - Fish Farming The Futures Channel - Water Supply
	History	Arkansas History (7-8) G.1.AH.7-8.2 Identify and map the major rivers of Arkansas. G.1.AH.7-8.3 Describe factors contributing to the settlement of Arkansas (climate, water). GD.8.AH.7-8.1 Describe the economic and social effects of the 1927 flood on Arkansas using primary and secondary resources Arkansas History (9-12) GD.8.AH.9-12.1 Contemporary U.S. History E.7.CH.1 Examine the influence of the following on the environmental Movement: - The Novel <i>Silent Spring</i> , -Environmental Protection Agency, -Green Peace, -Earth Day, E.7.CH.2 Investigate the consequences of environmental disasters. E.7.CH.3 Discuss contemporary environmental issues.
	World Geography	PR.2.WG.4 Research physical characteristics of regions floodplain, coastal Flood zone, river crossing). PS.3.WG.1 Features of the hydrosphere and biosphere. ES.7.WG.1 Research Floods. ES.7.WG.8 Examine human impact on the depletion of oceans and coastal resources