

# Water Competencies

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## Life Learning Academy Water Major Competencies

Upon graduation, students will be proficient in all three of the following strands and achieve mastery in one.

<b>Academics/Strands</b>	<b>Rivers – Swift Water</b>	<b>Oceans</b>	<b>Pools – Flat Water</b>
<b>English</b>	River of Words Poetry Unit: Langston Hughes, river poetry, <i>Down the River</i> (Edward Abbey) <i>Huckleberry Finn</i> (Mark Twain)	Navigation unit <i>Old Man and the Sea</i> (Hemingway)	Writing unit using water as metaphor
<b>Science</b>	Hydrology Dams	Marine Biology	Chemistry Water Treatment Ecology
<b>Social Studies</b>	Mapping River communities Floods California water history	Geography Explorers Colonization Significance of oceans in warfare	Development of civilization based on water dependency
<b>Health</b>	First Aid: work towards swift water rescue Nutrition Physiology (importance of hydration)	First Aid: life saving basics, CPR Nutrition Physiology (importance of hydration)	First Aid: life saving basics, CPR Nutrition Physiology (importance of hydration)
<b>Math</b>	Chart rafting course (e.g. source to sink) or Help design and construct sea kayak and accessories	Boat repair or Help design and construct sea kayak and accessories	Design greenhouse for LLA garden Design irrigation system for LLA garden
<b>Vocational Goal</b>	Jr. Rafting Guide (river safety, ropes/knots, camping skills, cooking skills, paddling, river knowledge)	Sailing certificate (navigation, charting, knots, ocean knowledge)	Pass swimming course, help other students learn to swim
<b>Culminating Trip</b>	Help lead three day river trip	Help lead sailing trip on SF Bay	Help instruct beginning swimming