

HISI - MODULE OVERVIEW

Module Title Health of the Klamath-Trinity Watershed LS Team Hoopa Grade level(s): 9-12

# of lessons:	Natural Resources _____ Renewable Energy _____
<p>Big Idea – Student Learning Healthy waters, Healthy lands, Healthy communities. How to determine the if the river system is healthy.</p>	<p>Learning Targets – “I Can” Statements I can determine pH of a water sample understand pH scale I can test water quality characteristics (temp, turbidity, oxygen) I can estimate size of a population I can develop procedures for collecting data I can record and interpret data I can describe watershed characteristics’ and factors that affect it.</p>
<p>Prior Knowledge: ecology (ecosystems,) , Biology(what living things need) geology(water and rock cycle) Chemistry (pH scale) Math(calculating percent’s) History(local culture/fish kill)</p>	<p>I can describe the water cycle I can make a cultural connection I can explain why healthy waters, healthy lands and healthy communities is important to me.</p>
<p>How are STEM integrated? Science – students study real world science problem (watershed) Technology- collecting and recording data Engineering – designing data collection techniques/procedures Math – calculating and interpreting data</p>	<p>Community/Place-based connections: 2015 fish fair - Healthy waters, Healthy lands, Healthy communities Cultural connection to the river and the fish Sampling sites in the local watershed, sampling “our water” Political activism (damn removal/ fish kill/ toxins in water)</p>
<p>What will be some community benefits? Healthy waters, Healthy lands, Healthy communities Science of health river ecosystems= used in local jobs (fisheries etc.) Appreciation of cultural heritage of river Inspired stewardship of watershed</p>	<p>STEM College/Career Connections: Tribal fisheries/ forestry/ wildlife- tech jobs HSU fisheries/ forestry /wildlife- need more masters degrees Political activism/ history and law Chemistry/ oceanography/ hydrology/geology</p>
<p>Assessment: What evidence of learning will you gather across the module’s implementation? Pre and Post tests Lab reports Lab journals Data analysis</p>	<p>General Outline of the Module: I. History (cultural) II. Chemistry (water quality) III. Biology (ecosystem/populations) IV. Geology(water cycle)</p>

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