

SOURCE WATER CURRICULUM ASSESSMENT WORKSHEET

Fill in “Your Source Water Curriculum Student Guide” column below for each of the recommended content areas and activities listed.

Recommended Content and Activities	Your Source Water Curriculum Student Guide
Simulate the “big picture” of the source water cycle from acquisition through treatment and consumer consumption to discharge of treated water back into a water ecosystem.	
Identify and define source water, and source water areas.	
Enable student to interpret CCR information: • <i>Identification of the sources of local drinking water.</i>	
Identify the watershed(s) in which the community is located.	
Identify storage areas for local source water.	
A survey of possible sources of source water pollution in the community.	
Enable student to interpret CCR information: • <i>The probable source of a contaminant.</i>	
Enable student to interpret CCR information: • <i>Susceptibility to contamination of the sources of local drinking water.</i>	
Identify contaminants in the local water supply.	
Enable student to interpret CCR information: • <i>The level of contaminants in the local water supply, and a comparison with EPA’s health-based maximum contaminant level.</i>	
Study methods of treating contaminated source water.	
Investigate effects of water quality on food sources and human health.	
Enable student to interpret CCR information: • <i>Potential health effects if a violation has occurred.</i>	
Enable student to interpret CCR information: • <i>If detected in the water, information on radon and Cryptosporidium.</i>	

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Investigate environmental and economic costs of creating new or supplementary municipal water systems.	
Imagine and/or practice strategies for a source water contamination emergency.	
Explore how source water availability and contamination might be affected by the interrelationship between personal lifestyle, socioeconomic status, culture, population growth, and water accessibility.	
Explore the role of legislation in source water protection.	
Practice or suggest individual opportunities for source water protection actions on a community, state, or federal level.	
Activity to enable student to interpret CCR information: • <i>Information on any completed Source Water Assessments (SWA), and the means in which to obtain a copy.</i>	
Background information, goals and objectives, activities and associated timeline, materials list for activities, resource identification, glossary, and assessment strategies.	
Information on accessing the local Consumer Confidence Report . Incorporation of CCR information into the structure and knowledge base of the information and activities in the education packet.	
Reference material for background information that is needed by students and educators in order to comprehend the scientific concepts integral to learning about source water. Background topics include: • Physical and chemical properties of water • The hydrologic cycle • The percentage of fresh water on the Earth available for drinking • Types of water related ecosystems • Soil composition and structure	

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<p>A curriculum template which describes the source water “big picture” through identification of the six key source water topics:</p> <ul style="list-style-type: none"> • Identification of drinking water sources. • Geohydrology: Dynamics of source water. • Accessing, storing, treating, and distributing source water. • Contamination, risk assessment, and remediation of source water. • Protection and/or prevention activities and programs of citizens, communities, and the Government. • Present and future needs for safe source water. 	
<p>A list of previously evaluated resources providing source water activities in the areas of:</p> <ul style="list-style-type: none"> • The physical and chemical properties of water. • The hydrologic cycle. • The percentage of fresh water on the Earth available for drinking. • Types of water related ecosystems. • Soil composition and structure. 	
<p>Suggestions for how to incorporate technology into activities and information acquisition, and/or suggest resources that can help this process.</p>	
<p>A correlation of activities with National Science Education Standards.</p>	
<p>A student assessment through a home, school, or community based source water action project.</p>	