

ENVIRONMENTAL SYSTEMS (Science 112.44)
Correlation to Texas Essential Knowledge and Skills

CHAPTER 1 - INTRODUCTION TO WATER

ACTIVITY	KNOWLEDGE AND SKILLS
The Hydrologic Cycle, 1-1	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4 (B) (make observations and compile data about fluctuations in abiotic cycles...)
Water Careers, 1-85	112.44.3(A)(C)(D) Scientific processes (...uses critical thinking and scientific problem solving...)
Environmental Controversy: Class Project 1-105	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(B)(C) Scientific processes (...uses critical thinking and scientific problem solving...) 112.44.5(A) Science concepts (summarize methods of land use...) (B) (identify source, use, quality, and conservation of water) (D) (identify renewable and non-renewable resources...) (E) (analyze and evaluate economic significance...) (F) (evaluate impact of human activity...) 112.44.8(A) Science concepts (analyze and describe the effects on environments of events...)
"pH-The First Clue to Water Quality" -1-109	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water)
Keep Our Community Beautiful, 1-125	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concept (evaluate the impact of human activity...on ecosystems) 112.44.5(F) Science concepts (evaluate the impact of human activity...on aquatic viability)

ACTIVITY	KNOWLEDGE AND SKILLS
Environmental Infrastructure Financing, 1-157	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concept (evaluate the impact of human activity...on ecosystems) 112.44.5(E) Science concept (analyze and devalue the economic significance...) 112.44.8(A) Science concept (analyze and describe the effects on environments...)
There "Oughta" Be A Law, 1-165	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) (identify source, use, quality, and conservation of water) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity...)
How Hard is Hard Water?, 1-195	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) (identify source, use, quality, and conservation of water)
Is Your Water Well For Drinking?, 1-203	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) (identify source, use, quality, and conservation of water)

CHAPTER 2 - DRINKING WATER AND WASTEWATER TREATMENT

ACTIVITY	KNOWLEDGE AND SKILLS
Water Works, 2-1	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concepts (evaluate the impact of human activity...) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) (identify source, use, quality, and conservation of water) (C) (identify renewable and non-renewable...) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity...) 112.44.7(C) Science concepts (evaluate the depletion of non-renewable resources...) (D) (analyze and make predictions about the impact on populations...) 112.44.8(A) Science concepts (analyze and describe the effects on environments...population growth...)
Carbon Treatment for Water Pollution Control, 2-9	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concepts (evaluate the impact of human activity...on ecosystems) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity ...on aquatic viability)
Chlorination for Disinfection, 2-15	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concepts (evaluate the impact of human activity...on ecosystems) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity ...on aquatic viability)

ACTIVITY	KNOWLEDGE AND SKILLS
Drinking Water Jeopardy, 2-21	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concepts (evaluate the impact of human activity...on ecosystems) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity ...on aquatic viability) 112.44.7(D) Science concepts (analyze and make predictions about the impact on populations...)
Source Water Protection: Surface Water Sources, 2-33	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concepts (evaluate the impact of human activity...on ecosystems) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity ...on aquatic viability) 112.44.7(D) (analyze and make predictions about the impact on populations...) 112.44.8(A) (Analyze and describe the effects on environments of...population growth...)
Source Water Protection: Groundwater Sources, 2-43	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concepts (evaluate the impact of human activity...on ecosystems) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity ...on aquatic viability) 112.44.7(D) (analyze and make predictions about the impact on populations...) 112.44.8(A) (Analyze and describe the effects on environments of...population growth...)

ACTIVITY	KNOWLEDGE AND SKILLS
How Are Detection Limits Set for Water Pollutants?, 2-55	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concepts (evaluate the impact of human activity...on ecosystems) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity ...on aquatic viability) 112.44.7(D) (analyze and make predictions about the impact on populations...) 112.44.8(A) (Analyze and describe the effects on environments of...population growth...)
Metals Pollution Reduction, 2-59	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(C) Science concepts (evaluate the impact of human activity...on ecosystems) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity ...on aquatic viability) 112.44.7(D) (analyze and make predictions about the impact on populations...) 112.44.8(A) (Analyze and describe the effects on environments of...population growth...)
What is in Sourcewater?, 2-65	112.44.1(A)(B)(C) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(A) Science concepts (identify indigenous plants and animals,...) (B) (make observations and compile data about fluctuations ...on local ecosystems and biomes) (E) (predict changes that may occur in an ecosystem...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water)

ACTIVITY	KNOWLEDGE AND SKILLS
Wastewater Treatment, 2-73	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (C) (document the use and conservation of ...) (D) (identify renewable and non-renewable resources...) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity...) 112.44.7(D) Science concepts (analyze and make predictions about the impact on populations...)
The World of Biological Wastewater Treatment, 2-83	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (C) (document the use and conservation of ...) (D) (identify renewable and non-renewable resources...) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity...) 112.44.7(D) Science concepts (analyze and make predictions about the impact on populations...)
Home Recycling of Graywater, 2-101	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (C) (document the use and conservation of ...) (D) (identify renewable and non-renewable resources...) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity...)

ACTIVITY	KNOWLEDGE AND SKILLS
<p>Do Septic Tanks do the Job?, 2-107</p>	<p>112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (C) (document the use and conservation of ...) (D) (identify renewable and non-renewable resources...) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity...) 112.44.7(D) Science concepts (analyze and make predictions about the impact on populations...) 112.44.8(A) Science concepts (analyze and describe the effects on environments...population growth...)</p>
<p>Land Application of Wastewater Solids, 2-117</p>	<p>112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (C) (document the use and conservation of ...) (D) (identify renewable and non-renewable resources...) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity...) 112.44.7(D) Science concepts (analyze and make predictions about the impact on populations...) 112.44.8(A) Science concepts (analyze and describe the effects on environments...population growth...)</p>

ACTIVITY	KNOWLEDGE AND SKILLS
Storm Water: Best Management Practices and Pollution Prevention, 2-123	112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (C) (document the use and conservation of ...) (D) (identify renewable and non-renewable resources...) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity...) 112.44.7(D) Science concepts (analyze and make predictions about the impact on populations...) 112.44.8(A) Science concepts (analyze and describe the effects on environments...population growth...)

CHAPTER 3 - SURFACE WATER RESOURCES

ACTIVITY	KNOWLEDGE AND SKILLS
Help! Lake Overturning, 3-15	112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.4(B) Science concepts (make observations and compile data about fluctuations...) (E) (predict changes that may occur in an ecosystem...)

ACTIVITY	KNOWLEDGE AND SKILLS
The Aging of Lakes, 3-25	<p>112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...)</p> <p>112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...)</p> <p>112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...)</p> <p>112.44.4(B) Science concepts (make observations and compile data about fluctuations...)</p> <p style="padding-left: 40px;">(C) (Evaluate the impact of human activity...)</p> <p style="padding-left: 40px;">(E) (predict changes that may occur in an ecosystem...)</p> <p>112.44.5(B) Science concepts (identify source, use, quality, and conservation of water)</p> <p style="padding-left: 40px;">(F) (evaluate the impact of human activity and technology...)</p> <p>112.44.7(D) Science concepts (analyze and make predictions about impact on populations...)</p> <p>112.44.8(A) Science concepts (analyze and describe the effects on environments...population growth...)</p>
Biodiversity = Water Quality, 3-29	<p>112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...)</p> <p>112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...)</p> <p>112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...)</p> <p>112.44.4(A) Science concepts (identity indigenous plants and animals...)</p> <p style="padding-left: 40px;">(B) (make observations and compile data about fluctuations...)</p> <p style="padding-left: 40px;">(C) (Evaluate the impact of human activity...)</p> <p style="padding-left: 40px;">(E) (predict changes that may occur in an ecosystem...)</p> <p>112.44.5(B) Science concepts (identify source, use, quality, and conservation of water)</p> <p style="padding-left: 40px;">(F) evaluate the impact of human activity...)</p>

ACTIVITY	KNOWLEDGE AND SKILLS
Best Management Practice for Forestry, 3-43	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) identify source, use, quality, and conservation of water (C) (document the use and conservation of ...resources) (E) (analyze and evaluate the economic significance...) (F) (evaluate the impact of human activity and technology...) 112.44.8(A) Science concepts (analyze and describe the effects on environments...deforestation...)
Simple Test for Microbial Contamination, 3-43	112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology on ...aquatic viability)
Ethical Dilemmas - What's a body to do?, 3-59	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(F) (evaluate the impact of human activity and technology on ...aquatic viability)
What Are Fecal Coliforms and How are They Related to Water Quality?, 3-63	112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology on ...aquatic viability)

ACTIVITY	KNOWLEDGE AND SKILLS
What Turned the Creek Orange?, 3-83	112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.8(A) Science concepts (analyze and describe the effects on environments...mining...)

CHAPTER 4 - GROUND WATER RESOURCES

ACTIVITY	KNOWLEDGE AND SKILLS
Do You Drink It?, 4-37	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.7(C) Science concepts (evaluate the depletion of non-renewable...) (D) (analyze and make predictions about the impact on populations...)
Groundwater: Cleaning Up, 4-67	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.7(C) Science concepts (evaluate the depletion of non-renewable...) (D) (analyze and make predictions about the impact on populations...)
What is Groundwater Pollution Doing to the Neighborhood?, 4-77	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.7(C) Science concepts (evaluate the depletion of non-renewable...) (D) (analyze and make predictions about the impact on populations...)

ACTIVITY	KNOWLEDGE AND SKILLS
Do You Drink It?, 4-37	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.7(C) Science concepts (evaluate the depletion of non-renewable...) (D) (analyze and make predictions about the impact on populations...)
Radon in Water, 4-85	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.7(C) Science concepts (evaluate the depletion of non-renewable...) (D) (analyze and make predictions about the impact on populations...)
Landfills and the Potential for Groundwater Contamination, 4-97	112.44.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.7(C) Science concepts (evaluate the depletion of non-renewable...) (D) (analyze and make predictions about the impact on populations...) 112.44.8(A) (analyze and describe the effects on environments...population growth...)
Leaking Underground Storage Tanks, 4-107	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A)(C) Scientific processes (analyze, review, and critiques scientific explanations...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.7(D) Science concepts (analyze and make predictions about the impact on populations...)

CHAPTER 5 - WETLANDS AND COASTAL WATERS

ACTIVITY	KNOWLEDGE AND SKILLS
An Alternative to the "What I Did on Summer Vacation" - "What I Can Do on Summer Vacation", 5-1	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(B) Science concepts (make responsible choices in selecting everyday products...) 112.44.8(B) Science concepts (explain how regional changes in the environment may have a global effect)
Understanding Marine Resources, 5-15	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(B) Science concepts (make responsible choices in selecting everyday products...) 112.44.4(A) Science concepts (identify indigenous plants and animals...) 112.44.5(D) (identify renewable and non-renewable resources...) (F) (evaluate the impact of human activity and technology...) 112.44.7(D) Science concepts (evaluate the depletion of non-renewable resources...)
River Input into the Gulf of Mexico, 5-19	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.8(B) Science concepts (explain how regional changes in the environment may have a global effect)
Wetlands, USA - More Than Swamps, 5-25	112.4.1(A)(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.4(A) (identify indigenous plants and animals...) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) (identify source, use, quality, and conservation of water)
Sea Margin Diversity, 5-45	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.4(A) (identify indigenous plants and animals...) 112.44.5(B) Science concepts (identify source, use, quality, and conservation of water)

ACTIVITY	KNOWLEDGE AND SKILLS
Erosion Kills the Habitats That Feed You, 5-59	112.44.2(A)(B)(C) Scientific processes (...uses scientific methods...) 112.44.4(B) Scientific concepts (make observations and compile data about fluctuations...) 112.44.5(A) Science concepts (summarize methods of land use and management) (B) (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.8(A) Science concepts (analyze and describe the effects on environments...) (B) (explain how regional changes in the environment may have a global effect)
Oil Spills, 5-65	112.4.1(A),(B) Scientific processes (...conducts field and laboratory investigations...) 112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.3(A) Scientific processes (analyze, review, and critique scientific explanations...) 112.44.5(B) Scientific concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability)
Impact Governmental Regulations on Marine Debris - Write a Letter!, 5-71	112.44.2(A)(B)(C)(D) Scientific processes (...uses scientific methods...) 112.44.5(B) Scientific concepts (identify source, use, quality, and conservation of water) (F) (evaluate the impact of human activity and technology...aquatic viability) 112.44.8(A) Science concepts (analyze and describe the effects on environments of events...) (B) (explain how regional changes in the environment may have a global effect)