

PROJECT WET AND CONSERVE WATER
CURRICULUM CORRELATIONS WITH SCIENCE GRADES 6 to 10, BIOLOGY, CHEMISTRY AND PHYSICS 20 & 30 (October 2006)
 Prepared by K. Grapes-Yeo, B.Ed. M.Sc. and L. Nicholls B.A. M.Ed.

BIOLOGY 30		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
THE CHEMICAL BASIC OF LIFE		
2. Investigate the properties of carbohydrates, lipids, and proteins.	Hangin' Together (35)	
CELL STRUCTURE AND FUNCTION		
2. Explain how the processes of diffusion, active transport, photosynthesis, and respiration are accomplished in a cell.	Let's Even Things Out (72)	A Hydrologic Primer- Challenge 4 (31)
OPTIONAL UNIT		
1. Impact of humans on the environment.		Many of these activities can be adapted using Saskatchewan data. Ins and Outs (23) Water Works (85) Irrigation Innovation (131) Water Audit (147) Xeriscape (195) ALL Case Studies (249-289)

BIOLOGY 20		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
INTRODUCTION TO BIOLOGY		
1. Understand the nature of the study of biology.	Aqua Bodies (63) The Life Box (76)	
ECOLOGICAL ORGANIZATION		
1. Explain how the interactions among the soil, climate, and living organisms produce the ecosystems which can be observed.	Imagine (157) The Incredible Journey (161) Just Passing Through (166) Piece It Together (174) Water Models (201) Wetland Soils in Living color (212)	The Blue Traveller (43) Xeriscape (195) Planning With Vision (274) Native Landscapes (269) Used Up Country (278)
2. Analyze a variety of ecosystems.	Aqua Bodies (63) Piece it Together (174) Rainy-Day Hike (186) Irrigation Interpretation (254)	A Hydrologic Primer- Challenge 3,4,5 (31) Blue Traveller (43) Water Works (85) Mrs. Alderson: Early Lessons in Water Conservation (101)

	Dust Bowls and Failed Levees (303) Easy Street (382) What's Happening? (424) Whose Problem Is It? (429) Raining Cats and Dogs (435)	Irrigation Innovation (131) Water Audit (147) Native Landscapes (269) Planning With Vision (274)
3. Describe life in past ecosystems.	The Great Stony Book (150) Just Passing Through (166) Humpty Dumpty (316) The Price is Right (333)	(Ins and Outs (23)) A Hydrologic Primer- Challenge 3,4,5 (31) Water Works (85) Irrigation Innovation (131) Water Audit (147)
6. Recognize ecological sequencing.	Water Molecules (201) Wet Vacation (206)	
AGRICULTURAL BOTANY OF SASKATCHEWAN		
1. Recognize the various biological processes associated with plant systems.	H2Olympics (30) Thirsty Plants (116)	A Hydrologic Primer- Challenge 1, 4 (31)
4. Recognize the interconnectedness of agriculture and the environment.	Capture, Store and Release (133) Just Passing Through (166) Irrigation Interpretation (254)	Water Trouble on the High Plains (260)

CHEMISTRY 30		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
SOLUBILITY AND SOLUTIONS		
1. Calculate concentrations of, and, prepare solutions	Reaching Your Limits (344)	
2. Understand the principles of qualitative analysis of solutions	What's The Solution? (54)	
ACID-BASE EQUILIBRIA		
1. Understand that technology both shapes and is shaped by society	Where are all the Frogs? (344)	
2. Consider how the ionization of water interacts with acid and base dissociations.	Where are all the Frogs? (344)	

CHEMISTRY 20		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
INTRODUCTION TO CHEMISTRY		
1. Recognize safe practices and explain the reason for each practice.	The Pucker Effect (338)	
2. Identify and explain how chemistry affects us.	Sparkling Water (348) Reaching Your Limits (344)	
4. Develop an understanding of how knowledge is obtained, evaluated, refined and changed within chemistry.	Reaching Your Limits (344)	
5. Come to a better understanding of the personal, moral, social, and cultural aspects of chemistry.	Where are the Frogs? (279) Macroinvertebrate Mayhem (322) A Grave Mistake (311)	
MOLECULES AND COMPOUNDS		
3. Examine the bonding between molecules or atoms in solid and liquid phases.	Hangin' Together (35)	
CHEMICAL REACTIONS		
1. Appreciate the importance of chemical reactions.	A Gave Mistake (311) The Pucker Effect (338)	
OPTIONAL UNITS		
BEHAVIOUR OF GASES		
Applying kinetic molecular theory to understand the properties of gases.	Molecules in Motion (47)	A Hydrologic Primer- Warmup (31)
CONSUMER CHEMISTRY		

Describe and discuss the impact of the chemical industry on society	Where Are the Frogs? (279) A Grave Mistake (311)	
Develop a contemporary view of chemical technology and its influence on our lives	The CEO (300) The Price is Right (333) Sparkling Water (348)	
ORGANIC CHEMISTRY		
INDEPENDENT RESEARCH		
Develop abilities to meet own learning needs.	H2Olympics (30) A Grave Mistake - Extensions (311) Sparkling Water - Extensions (348)	
Develop an understanding of how knowledge is created, evaluated, refined and changed within chemistry.	H2Olympics (30) A-maze-ing Water - Extensions (219) A Grave Mistake - Extensions (311) Sparkling Water - Extensions (348)	

PHYSICS 30		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
ELECTRICITY - Electric power and energy		
9. Identify the main ways that are used to produce electricity in Canada.	Energetic Water (242)	
10. Identify the impact each main method used to produce electricity has on the environment.	Energetic Water (242)	
FLUID MECHANICS - Density		
1. Define the following terms: density, relative density (specific gravity)	Adventures in Density (25)	
2. Recognize that density is a characteristic property of matter.	Adventures in Density (25)	
4. Solve problems based on an understanding of density.	Adventures in Density (25)	
FLUID MECHANICS -Archimede's Principle		
3. Explain what factors would need to be considered in determining whether or not an object will float.	Adventures in Density (25)	

PHYSICS 20		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
HEAT- Heat and Temperature		
1. Identify some important postulates of the kinetic molecular theory.	Molecules in Motion (47)	
HEAT-Specific Heat Capacity and Latent Heat		
5. Identify several unique physical properties of water.	Adventures in Density (25) H2Olympics (30) Hangin' Together (35) Let's Even Things Out (72) A House of Seasons (155)	
6. Suggest some environmental implications leading from the physical properties of water.	Geysers Guts (144)	
HEAT - Thermodynamics		
3. Give a practical example which illustrates the Law of Conservation of Energy.	Cold Cash In the Icebox (373)	A Hydrologic Primer- Warmup (31)
5. Give a practical example which illustrates the Principle of Heat Exchange.	Cold Cash In the Icebox (373)	

Grade TEN		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
SUSTAINABILITY OF ECOSYSTEMS		
SE1: Explore cultural perspectives on sustainability	Poetic Precipitation (182) Colour me a Watershed (223) Common Water (232) A Drop in the Bucket (238) Irrigation Interpretation (254) Sum of the Parts (267) Where are the Frogs (279) A Grave Mistake (311) Money Down the Drain (328) The Price is Right (333) Choices and Preferences, Water Index (367) Hot Water (385) Water: Read All About It! (400) Water Court (413) What's Happening? (425) Whose Problem is it? (429) Raining Cats and Dogs (435) The Rainstick (442) Water Messages in Stone (454)	Your Hydrologic Deck (161) TRP in NYC (252)
SE2: Examine biodiversity within local ecosystems	Water Actions (12) Aqua Bodies (63) Aqua Notes (65) Life in the Fast Lane (79) No Bellyachers (85) People of the Bog (89) Thirsty Plants (116) Water Address (122) Capture, Store, Release (133) Stream Sense (191) Wetland Soils in Living Colour (212) Colour me a Watershed (223) Common Water (232) Sum of the Parts (267) Water Meter (271) Water Works (274) Where are the Frogs (279) Macroinvertebrate Mayhem (322) Wet Work Shuffle (360) Hot Water (388)	Water Works (85) Irrigation Innovation (131) Xeriscape! (195)
SE3: Analyze population dynamics within an ecosystem	Life in the Fast Lane (79) Water Address (122) Macroinvertebrate Mayhem (322)	Xeriscape! (195)

SE 4: Identify cycles, change, and stability in ecosystems	Thirsty Plants (116) Indirect Incredible Journey (161) Humpty Dumpty (316) The Pucker Effect (338) Indirect Water Celebration (448) Indirect	A Hydrologic Primer (31) The Blue Traveller (43) Water Trouble on the High Plains (260) Native Landscapes (269) Planning With Vision (274)
SE 5: Investigate human impact on ecosystems.	Water Actions (12) Life in the Fast Lane (79) No Bellyachers (89) Capture, Store, Release (133) Indirect Get the Groundwater Picture (136) A-maze-ing Water (219) Colour me a Watershed (223) Money Down the Drain (328) Common Water (232) The Price is Right (333) Energetic Water (242) Irrigation Interpretation (254) The Long Haul (260) Sum of the Parts (267) Water Works (274) Where are the Frogs (279) Every Drop Counts (307) A Grave Mistake (311) Humpty Dumpty (316) Sparkling Water (348) Superbowl Surge Part II (353) Choices and Preferences, Water Index (367) Indirect Dilemma Derby (377) Hot Water (388) Perspectives (397) Pass the Jug (392) Water Court (413)	The Ins and Outs of Water Conservation (23) A Hydrologic Primer (31) The Blue Traveller (43) Get the Groundwater Picture (65) Water Works (85) Conservation Choices (115) Pass the Jug (123) Irrigation Innovation (131) Water Audit (147) Your Hydrologic Deck (161) Xeriscape (195) Water Conservation Invention Convention (201) TRP in NYC (252) One Scoop or Two (255) Water Trouble on the High Plains (260) Operation Water Sense (264) Native Landscapes (269) Planning With Vision (274) Used Up Country (278)
CHEMICAL REACTIONS		
CR1: Observe common chemical reactions in your world	Adventures in Density (25) H2Olympics (30) Indirect Hangin' Together (35) Is There Water on Zork? (43) Molecules in Motion (47) What's the Solution? (54) Lets Even Things Out (72) Where are all the Frogs (279) A Grave Mistake (311) The Pucker Effect (338) Sparkling Water (348)	A Hydrologic Primer (31)
CR2: Represent chemical reactions symbolically using models, word equations and balanced chemical equations	Hanging Together (35)	

CR3: Identify characteristics of chemical reactions involving organic compounds	Geysers Guts Extension (144)	
CR4: Identify factors that affect the rates of chemical reactions	Adventures in Density (25) Is There Water on Zork? (43) Molecules in Motion (47) Let's Even Things Out (72) The Pucker Effect (338) Indirect	A Hydrologic Primer (31)
CR5: Investigate chemical reactions involving acids and bases	Is There Water on Zork (43) Where are the Frogs (279) The Pucker Effect (338) Indirect	
EARTH AND SPACE SCIENCE: WEATHER DYNAMICS		
WD1: Explore the causes and impact of severe weather in Canada	The Thunderstorm (196) Wet Vacation (206) Nature Rules (260) Dust Bowls and Failed Levees (303)	A Hydrologic Primer Challenge 3 (31) Native Landscapes (269)
WD2: Analyze meteorological data	Piece it Together (175) The Thunderstorm (196) Wet Vacation (206) Nature Rules (260)	A Hydrologic Primer Challenge 3 (31)
WD3: Explain the principles of weather	Branching Out (129) Incredible Journey (161) Piece it Together (175) Water Models (201) After Math (289) Indirect The Rainstick (442)	A Hydrologic Primer Challenge 3 (31) The Blue Traveller (43) Indirect
WD4: Forecast local weather conditions	Wet Vacation (206) Nature Rules (260) The Rainstick (442)	A Hydrologic Primer Challenge 3 (31)
WD5: Identify consequences of global climate change	Water Actions (12) Where are the Frogs (279) After Math (289) Dust Bowls and Failed levees (303)	

Grade NINE		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
CHEMISTRY AND YOU		
1. Understand that all materials have a chemical composition.	Where Are The Frogs? (279)	
2. Describe some chemical reactions	Where Are The Frogs? (279)	
3. Develop an understanding of how knowledge is created, evaluated, refined and changed within science.	Where Are The Frogs? (279)	
RISKS AND LIMITS		
1. Understand that risks are associated with all activities.	Poison Pump (93) Super Sleuths (107) A Grave Mistake (311) The Pucker Effect (338)	Water Works (85) Adrift (249) Water Trouble on the High Plains (260)
2. Recognize that activities have risks and benefits.	No Bellyachers (85) A Grave Mistake (311)	
SASKATCHEWAN- THE ENVIRONMENT		
2. Explore the effects of human activity on the landscape of Saskatchewan.		Xeriscape (195) Water Trouble on the High Plains (260) Adapt Native Landscapes (269)
3. Develop compassionate, empathetic and fair-minded students who can make positive contributions to society as individuals and as members of groups.	Common Water (232) Pass the Jug (392) Water Court (413) Whose Problem Is It? (429)	Ins and Outs (23) Water Works (85) Pass the Jug (123) Water Audit (147) Xeriscape (195) Operation Water Sense (264) Native Landscapes (269) Planning With Vision (274) Used Up Country (278)
FLUIDS AND PRESSURE		
1. Broaden knowledge of the characteristics of fluids.	Adventures in Density (25)	
THE ATMOSPHERE		
1. Understand the dynamic nature of the atmosphere.	Piece it Together (174) The Thunderstorm (196)	A Hydrologic Primer- Challenge 3 (31)
2. Recognize the effects of human activity on the atmosphere.	Where Are The Frogs? (279)	

Grade EIGHT		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
ADAPTATION AND SUCCESSION		
1. Recognize how biotic components of an ecosystem support life.	People of the Bog (89) Thirsty Plants (116) Water Address (122) The Incredible Journey (161) Water Models (201) Wetland Soils In Living Color (212) Macroinvertebrate Mayhem (322) Water Concentration (407)	The Blue Traveller (43) Indirect Alligators, Epiphytes, and Water Managers (75) Indirect
2. Examine how living things alter their environment.	Life in the Fast Lane (79) Salt Marsh Players (99) Back to the Future (293) Humpty Dumpty (316) Reaching Your Limits (344)	Alligators, Epiphytes, and Water Managers (75) Irrigation Innovation (131) Xeriscape (195) Indirect Water Trouble on the High Plains (260)
3. Develop a positive disposition to lifelong learning.	Water Actions (12) Water Meter (271)	
THE MOVING CRUST		
2. Investigate the effects produced by moving crust plates.	Back to the Future (293)	
3. Relate the geological history of Saskatchewan to the movement of the North American plate.	Great Stony Book (150) Just Passing Through (166) Old Water (171)	
SOLUTIONS		
1. Develop abilities to distinguish solutions from other mixtures.	Hangin' Together (35) Molecules in Motion (47)	
2. Investigate some properties of solutions	Adventures in Density (25) Is There Water on Zork? (43) What's the Solution? (54) Aqua Bodies (63) Let's Even Things Out (72) No Bellyachers (85) Poison Pump (93) Super Sleuths (107) Where Are the Frogs? (279) The Pucker Effect (338) Sparkling Water (348)	
3. Develop abilities to meet personal learning needs.	Water Actions (12) Water Write (457)	
ENERGY RESOURCES IN SASKATCHEWAN		

3. Identify and evaluate methods for the conservation of fossil fuels and energy.	A Drop in the bucket (238) Energetic Water (242) The Long Haul (260) The Price is Right (333) Dilemma Derby (377)	
4. Develop compassionate, empathetic, and fair-minded students who can make positive contributions to society as individuals and as members of groups.	Sum of the Parts (267) Water Meter (272) Water Works (274)	
EARTH AND SPACE		
2. Recognize the conditions which govern life in space.	The Life Box (76) Is There Water on Zork? (43)	
CONSUMER PRODUCT TESTING		
1. Understand the principles of product design, test, design, and report design.	Reaching Your Limits (344) Sparkling Water (348) Choices and Preferences, Water Index (367)	Water Vessels (91) Water Conservation Invention Convention (201)
PLANT GROWTH		
1. Explore the factors which influence plant growth	Thirsty Plant (116) Let's Even Things Out (72)	A Hydrologic Primer- Challenge 1 (31) Xeriscape (195) Native Landscapes (269)
2. Understand the relationship between plant growth and agricultural practice.	Common Water (232) A Drop in the Bucket (238) Irrigation Interpretation (254) Water Works (274) Easy Street (382) Pass the Jug (392)	A Hydrologic Primer- Challenge 1 (31) Irrigation Innovation (131) Xeriscape (195) Indirect Used Up Country (278)
3. Develop an understanding that technology both shapes society and is shaped by society.	Super Bowl Surge (353) Perspectives (397) Water Concentration (407) Whose Problem Is It? (429)	A Hydrologic Primer- Challenge 1 (31) Water Works (85) Irrigation Innovation (131) Used Up Country (278) Indirect
ENERGY AND MACHINES		
1. Understand the principles of machines	Energetic Water (242)	Water Conservation Invention Convention (201) Indirect
2. Combine knowledge of the principles of design with the principles of simple machines.	Water Works (274) Pass the Jug (392)	Pass the Jug (123) Water Conservation Invention Convention (201) Indirect
3. Develop an understanding that technology both shapes society and is shaped by society.	Irrigation Interpretation (254) Water Concentration (407) Perspectives (397) Whose Problem is It? (429)	Water Works (85) Water Conservation Invention Convention (201) Indirect Adrift (252) Indirect

Grade SEVEN		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
THE BASICS OF LIFE		
1. Identify the essential characteristics and processes of living organisms.	Aqua Bodies (63) Imagine (157) The Incredible Journey (161) Old Water (171)	A Hydrologic Primer - Challenge 1 (31)
2. Appreciate how organisms meet their needs.	Hangin' Together (35) The Life Box (76) People of the Bog (89) Poison Pump (93)	A Hydrologic Primer - Challenge 1 (31) Alligators, Epiphytes, and Water Managers (75) Adrift (249)
3. Acquire appreciation of the personal, moral, social and cultural aspects of understanding.	A Drop in the bucket 92380 Choices and Preferences, Water Index (367)	Native Landscapes (269)
4. Develop the ability to describe and to evaluate ideas and processes which involve the environment.	Is There Water On Zork (43)	A Hydrologic Primer- Challenge 1 (31) Adrift (249) TRP in NYC (252) Water Trouble on the High Plains (260) Operation Water Sense (264) Native Landscapes (269) Planning With Vision (274)
SASKATCHEWAN THE LAND		
1. Consider the effects of glaciation on Saskatchewan	Life in the Fast Lane (79) Branching Out (129)	
2. Recognize the weathering processes which have occurred since the last period of glaciation.	Life in the Fast Lane (79) People of the Bog (89) Poison Pump (93) Water Address (122) Capture, Store and Release (133) Wetland Soils in Living Color (2120)	Mrs. Alderson: Early Lessons in Water Conservation (101) Used Up Country (278)
3. Appreciate how natural and human forces have shaped the land.	Water Address (122) Get The Groundwater Picture (136) The Great Stony Book (1500) Just Passing Through (166) Color Me a Watershed (223) Irrigation Interpretation (254) Sum of the Parts (267) Humpty Dumpty (316) Easy Street (382)	Irrigation Innovation (131) Get The Groundwater Picture (65) Water Trouble on the High Plains (260) Used Up Country (278)
5. Understand and use the vocabulary and forms of expression which ecologists and geographers use to describe the environment.	Choices and Preferences, Water Index (367)	Glossary (291)

FORCE AND MOTION		
1. Recognize the relationship between force and motion	Hangin' Together (35) Molecules in Motion (47) Branching Out (129)	
2. Know the forces which influence various types of motion.	Get The Groundwater Picture (136) The Great Stony Book (150) Just Passing Through (166)	Get The Groundwater Picture (65)
STRUCTURES AND DESIGN		
1. Recognize elements of design in a diverse group of objects.	Irrigation Interpretation (254)	Water Vessels (91) Irrigation Innovation (131)
2. Understand principles of good design.	Water Crossing (421)	Water Conservation Invention Convention (201)
3. Develop a contemporary view of technology.		Water Conservation Invention Convention (201)
4. Promote both intuitive, imaginative thought and the ability to evaluate ideas, processes, experiences and objects in meaningful contexts.		Water Conservation Invention Convention (201) Adrift (249)
RENEWABLE RESOURCES IN SASKATCHEWAN		
1. Recognize the renewable resources of Saskatchewan.	Is There Water On Zork? (43) Sum of the Parts (267)	
2. Compare renewable and nonrenewable sources of energy.	Energetic Water (242) Irrigation Interpretation (254)	
3. Investigate critical attributes of renewable sources of energy.	Common Water (232) A Drop in the Bucket (238) Wet-Work Shuffle (360) Choices and Preferences, Water Index (367) Dilemma Derby (377)	A Hydrologic Primer- Challenge 2,4,5 (31) Water Works (85) Indirect Conservation Choices (115)
4. Develop "strong sense" critical and creative thinkers	Life in the Fast Lane (79) A-maze-ing Water (219) Hot Water (388) Pass The Jug (392)	Ins and Outs (23) A Hydrologic Primer- Challenge 2,4,5 (31) Conservation Choices (115) Pass the Jug (123) Water Audit (147) Operation Water Sense (264) Native Landscapes (269) Planning With Vision (274)
5. Develop an understanding that technology both shapes society and is shaped by society.	The Long Haul (260) Perspectives (397) What's Happening? (425) Whose Problem is It? (429)	A Hydrologic Primer- Challenge 2,4,5 (31) Water Vessels (91) Mrs. Alderson: Early Lessons in Water Conservation (101) Irrigation Innovation (131) Water Conservation Invention Convention (201)
MICROORGANISMS		
1. Recognize some microorganisms	Life in the Fast Lane (79) People of the Bog (89) Macroinvertebrate Mayhem (322)	
2. Appreciate the beneficial roles of some microorganisms.	Salt Marsh Players (99)	

3. Realize how microorganisms can cause food spoilage.	Super Sleuths (107)	
4. Consider some attempts to avoid problems created by microorganism-induced food spoilage.	Poison Pump (93)	
5. Promote both intuitive, imaginative thought and the ability to evaluate ideas, processes, experiences and objects in meaningful contexts.	Is There Water on Zork? (43)	
TEMPERATURE AND HEAT		
1. Recognize energy conversions which involve heat.	Adventures in Density (925)	
2. Understand the relationship between heat and the motion of particles in a substance.	Hangin' Together (35) Molecules in Motion (47) What's The Solution (54) Let's Even Things Out (72)	
3. Recognize differences between heat and temperature.	Water Models (201)	
5. Strengthen students' understanding of heat by applying knowledge to numbers and their interrelationships.	Is There Water on Zork? (43)	
RESOURCE USE		
1. Understand how resource use decisions are made.	The Life Box (76) Life in the Fast Lane (79) Just Passing Through (166) A Drop in the Bucket (238) Sum of the Parts (267) Water Works (274) Wet-Work Shuffle (360)	Water Works (85) Mrs. Alderson: Early Lessons in Water Conservation (101) TRP in NYC (252)
2. Investigate problems and concerns involving solid waste.	A-maze-ing Water (219) Common Water (232) Every Drop Counts (307) A Grave Mistake (311) Money Down the Drain (328) Sparkling Water (348) Super bowl Surge (353) Choices and Preferences, Water Index (367)	Water Works (85)
3. Use language for differing audiences and purposes relevant to the students and to understanding about how we use resources.	Dilemma Derby (377) Hot Water (388) Pass the Jug (392) Perspectives (397) What's Happening? (425) Whose Problem Is It? (429) Water Celebration (446) Water Write (457)	Ins and Outs (23) Water Works (85) Mrs. Alderson: Early Lessons in Water Conservation (101) Conservation Choices (115) Pass the Jug (123) Adrift (249) Operation Water Sense (264) Native Landscapes (269) Planning With Vision (274) Used Up Country (278)

GRADE SIX		
UNIT OBJECTIVES	Project WET	CONSERVE WATER
ATOMS AND REACTIONS		
1. Explain the nature of indirect evidence	Is There Water on Zork? (43)	
3. Describe some chemical reactions.	Adventure in Density (25) H2Olympics (30) Hangin' Together (35) What's the Solution (54)	
ECOSYSTEMS		
1. Recognize the factors which influence the size of a population	Salt Marsh Players (99) Water Address (122) Common Water (232)	Water Works (85) Xeriscape (195) Native Landscapes (269)
2. Recognize that a change in an ecosystem can affect life.	Life in the Fast Lane (79) People of the Bog (89) Water Address (122) Capture, Store and Release (133) Water Models (201) Sum of the Parts (267) Where are the Frogs? (279)	Water Works (85) Irrigation Innovation (131) Xeriscape (195) Native Landscapes (269) Used Up Country (278)
3. Develop responsibility for the protection of the environment.	Water Actions (12) Water Log (19) Every Drop Counts (307) Humpty Dumpty (316) Macroinvertebrate Mayhem (322) Dilemma Derby (377) Water Celebration (446)	Water Works (85) Conservation Choices (115) Water Audit (147) Xeriscape (195) TRP in NYC (252) Operation Water Sense (264) Native Landscapes (269) Used Up Country (278)
SPACE		
2. Predict the future impact of space exploration.		Shuttle Water (286)
3. Appreciate the value and limitations of technology within society. (TL)		Shuttle Water (286)
4. Promote both intuitive, imaginative thought and the ability to evaluate ideas, processes, experiences and objects in meaningful contexts.		Shuttle Water (286)
EARTH'S CLIMATES		
1. Identify the factors which stabilize climate.	Imagine! (157) The Incredible Journey (161)	
2. Identify and compare different world climates.	Piece it Together (174) Water Models (201) Wet Vacation (206) Nature Rules (262) After Math (289)	
3. Recognize long-term climate patterns.	Old Water (171)	

ENERGY USE		
1. Identify different forms and sources of energy.	A Drop in the Bucket (238) Energetic Water (242)	
2. Evaluate different uses of energy.	Water Works (274)	
SOUND AND ELECTRICAL ENERGY		
2. Investigate the behaviour of sound.	The Thunderstorm (196) The Rainstick (442) WATER in motion (450)	
PLANT AND ANIMAL ADAPTATIONS		
1. Explain the responses of plants to environmental stimuli.	Salt Marsh Players (99) Thirsty Plants (116) Water Address (122) Irrigation Interpretation (254)	Irrigation Innovation (131)
2. Explain how animal adaptations improve the chances of survival.	Salt Marsh Players (99) Water Address (122)	Alligators, Epiphytes, and Water Managers (75)