

ENVIROTHON
LEARNING OBJECTIVES/
TESTING AREAS

Aquatics

- A. Identify the process and phases for each part of the water cycle

- B. Describe the chemical and physical properties of water and explain their importance for freshwater and saltwater ecosystems

- C. Discuss methods of conserving water and reducing point and non-point source pollution

TEKS Courses

Integrated Physics and Chemistry 6(A)(C)(H), 8(C);
Biology 12(A);
Environmental Systems 6(A)(B)(C)(D);
Chemistry 5(A)(C); Aquatic Science 6(A);
Physics 7(A)(B); Geology Meteorology, and
Oceanography 12(A)(B)(C), 13(A)(B)(C);
Range Management and Ecology 3(B);
Environmental Technology 1(A)(B)

Integrated Physics and Chemistry 6(B)(C)(H), (7)(A)(D)(E), (8)(A), (9)(A)(B)(C)(D); Biology (9)(D), (12)(E);
Environmental Systems (4)(B); Chemistry 4(A)(B)(D), 5(B)(C), 6(A), 8(A)(B)(C)(D), 10(A), 11(A), 12(A)(B)(C), 13(A)(B)(C), 14(B)(C)(D), 15(A)(B); Aquatic Science 4(A)(B)(C), 6(A), 7(D), 8(A), 9(A);
Astronomy 10(A) Geology, Meteorology, and Oceanography 4(B), 11(A); Exploring Aquaculture 4(A);

Integrated Physics and Chemistry (6)(D), (8)(E); Biology (12)(A); Environmental Systems (5)(B)(C)(D)(E)(F); Chemistry 3(B); Applied Agricultural Science and Technology 7(D); Energy and Environmental Technology 8(A)(B)(C)(D), 9(A)(B)(C); Introduction of Horticultural Science 3(B); Home Maintenance and Improvement 4(A)(B)(C)(D), 7(D); Plant and Animal Production 2(B); Range Management and Ecology 3(B); Fruit, Nut, and Vegetable Production 3(C); Agricultural Structures Technology 5(F); Plant and Soil Science 3(C); Aquaculture Production 4(C); Agricultural Mechanics 5(A)

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- D. Analyze the interaction of competing uses of water supply, hydropower, navigation, wildlife, recreation, waste assimilation, irrigation, industry, and others
- Integrated Physics and Chemistry (8)(E), (9)(C); Environmental Systems (4)(C), (5)(A), (7)(C); Chemistry 9(D); Aquatic Science 8(B)(D); Intro. To World Agricultural Science and Technology 5(C)(D); Applied Agricultural Science and Technology 7(A); Energy and Environmental Technology 3(A); Exploring Aquaculture 4(C); Range Management and Ecology 2(A)(B); Agricultural Resources 3(A)
- E. Identify common aquatic organisms through the use of a key
- Biology (8)(A)(B)(C); Environmental Systems (4)(A); Aquatic Science 7(A); Wildlife & Recreation Management 3(B); Aquaculture Production 2(B)
- F. Delineate the watershed boundary for a small water body
- Aquatic Science 10(A)(B)(C); Geology, Meteorology, and Oceanography 10(A)(B)(C)
- G. Be able to explain the different types of aquifers and how each type relates to water quality and quantity
- Aquatic Science 5(C), 10(A); Geology, Meteorology, and Oceanography 8(A)(B)
- H. Briefly describe the benefits of wetlands, both function and value
- Biology (4)(B), (5)(A), (9)(B)(D), (10)(C), (12)(B)(C)(E); Environmental Systems (4)(A), (6)(B)(C)(D); Aquatic Science 5(B)(C)
- I. Describe the changes to the aquatic ecosystem based on alteration to the aquatic habitat
- Integrated Physics and Chemistry (9)(C); Biology (11)(A)(B)(D), (12)(E), (13)(A); Environmental Systems (4)(D)(E), (8)(B); Aquatic Science 7(B)(C)(D), 8(A)

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J. Know methods used to assess and manage aquatic environments and utilize water quality information to assess the general water quality of a given body of water (includes sampling techniques, water quality parameters used to monitor point and non-point source pollution)

Integrated Physics and Chemistry (1)(A)(B), (2)(A)(B)(C)(D), (3)(A)(B)(C); Biology (1)(A)(B)(C)(D), (3)(A)(C)(E); Environmental Systems (1)(A)(B), (2)(A)(B)(C)(D), (3)(A)(B)(C), (8)(C)(D); Chemistry 1(A)(B), 2(A)(B)(C)(D)(E), 3(A); Aquatic Science 1(A)(B), 2(A)(B)(C)(E), 3(A)(B), 5(A)(B)(C)(D), 6(A)(B)(C); Physics 1(A)(B), 2(A)(B)(C)(D)(E)(F), 3(A)(B)(C), 4(A); Astronomy 1(A)(B), 2(A)(B)(C)(D), 3(A)(B)(C); Geology, Meteorology, and Oceanography 1(A)(B), 2(A)(B)(C)(D), 3(A)(B)(C); Applied Agricultural Science and Technology 7(B); Exploring Aquaculture 4(B); Environmental Technology 4(A)(B)(C)(D); Aquaculture Production 4(A)(B)(C)

K. Be familiar with major methods and laws used to protect water quality (surface and ground water) and utilize this information to make management decisions to improve the quality of water in a given situation

Integrated Physics and Chemistry 3(A)(B)(C), (2)(A)(B)(C)(D); Biology 2(A)(B)(C)(D), (3)(A)(B)(C); Environmental Systems (2)(A-D), (3)(D)(E), (5)(A); Chemistry 2(A)(B)(C)(D)(E), 3(C); Aquatic Science 2(A)(B)(C)(D)(E), 3(A)(B)(C)(D)(E), 8(C); Physics 2(A)(B)(C)(D)(E)(F), 3(A)(B)(C); Astronomy 2(A)(B)(C)(D), 3(A)(B)(C); Geology, Meteorology, and Oceanography 2(A)(B)(C)(D), 3(A)(B)(C); Intro. To World Agricultural Science and Technology 5(F), 8(E); Energy and Environmental Technology 3(C), 5(A)(B)(C)(D)(E); Exploring Aquaculture 4(D)(E); Wildlife and Recreation Management 4(A)(B); Environmental Technology 3(C), 5(B)(C)(D)(E); Agricultural Resources 2(B), 3(A)