

Commerce City Schools Curriculum Map

Grade Level: 11th and 12th

Content Area: AP Environmental Science

Grading Period	1 st 6 weeks	1 st 6 weeks	1 st and 2 nd 6 weeks	2 nd and 3 rd 6 weeks	3 rd and 4 th 6 weeks	5 th 6 weeks	5 th and 6 th 6 weeks
Name of Unit	An Introduction to Environmental Science - Humans and Sustainability	The Nature of Science	Ecology and Sustainability	Sustaining Biodiversity	Sustaining Key Resources	Sustaining Environmental Quality	Sustaining Human Societies
Big Ideas	Categories of environmental problems; Causes of environmental problems; Sustainability	Science, systems, matter and energy; Basic Chemistry; Measurement - units, precision, accuracy; Graphing; How to analyze a scientific article	Ecosystems; Evolution and biodiversity; Climate and terrestrial biodiversity; Aquatic biodiversity; Community ecology; Population ecology; Classifying and naming species;	Sustaining terrestrial biodiversity - ecosystem approach; Deforestation and nutrient cycling in an experimental forest; Sustaining biodiversity - the species approach; Reducing the harmful	Food, soil conservation and pest management; Shade grown coffee and tropical forests; Water; Using isotope hydrology to understand aquifers; Geology and nonrenewable mineral	Environmental hazards and human health; Air pollution; Weather basics - El Niño, tornadoes, and tropical cyclones; Climate change and ozone depletion; Water pollution;	Sustainable cities; Economics, environment, and sustainability; Politics, environment, and sustainability; Environmental worldviews, ethics, and sustainability; Global free trade and the

			Applying population ecology - Impact of human populations; Effects of genetic variation on population size	effects of insects and pathogens on forests; Sustaining aquatic biodiversity; Biodiversity and ecological footprints	resources; Earthquakes; tsunamis, and volcanic eruptions; Nonrenewable energy; Energy efficiency and renewable energy; Maps of nonrenewable and renewable energy resources; A brief history of the age of oil	Solid and hazardous wastes; Estimating the toxicity of a chemical	environment
Pacing of Unit	1 week	2 weeks	8 weeks	4 weeks	9 weeks	7 weeks	5 weeks
Resources	Textbook and related materials, computers, LCD projector, lab equipment and supplies, subject appropriate	Textbook and related materials, computers, LCD projector, lab equipment and supplies, subject appropriate	Textbook and related materials, computers, LCD projector, lab equipment and supplies, Georgia Field,	Textbook and related materials, computers, LCD projector, lab equipment and supplies, subject	Textbook and related materials, computers, LCD projector, lab equipment and supplies, subject appropriate	Textbook and related materials, computers, LCD projector, lab equipment and supplies, subject appropriate	Textbook and related materials, computers, LCD projector, lab equipment and supplies, subject appropriate

	magazines and journals	magazines and journals	Guides, Aquatic ecosystem materials, subject appropriate magazines and journals, Aquatic Microlife Guides	appropriate magazines and journals, Georgia Field Guides	magazines and journals, Hydroponic garden materials	magazines and journals	magazines and journals, current newspapers
AP College Board Curricular Requirements	C-3, C-4, C-6	C-2-e, C-5-a, C-8, C-9, C-10	C-1-d, C-2-a, C-2-b, C-2-c, C-2-d, C-3-a, C-3-b	C-2-c, C-2-e, C-4-b, C-4-c, C-4-d, C-4-f, C-7-c, C-10	C-1-a, C-1-c, C-1-d, C-2-d, C-2-e, C-4-a, C-4-e, C-4-f, C-5-a, C-5-b, C-5-c, C-5-d, C-5-e, C-5-f, C-5-g, C-10	C-1-b, C-1-c, C-2-d, C-6-a, C-6-b, C-7-a, C-7-b, C-10	C-3-b, C-4-d, C-4-g, C-6-a, C-6-b, C-6-c, C-10