



AP Environmental Science

45-minute days	90-minute days	Dates	Sequence of Topics	Suggested Resources/Notes	
1-2	1	September 5-14	Environmental Issues (6 days)	01:Cats of Borneo / 02:Tragedy in the Making / 03:Tragedy of the Commons September 10-11 - No School	
3-4	2		Environmental Issues: Exponential Growth; Tragedy of the Commons; Introduction to AP FRQ		
5-6	3				
7-8	4	September 17 - October 5	Ecology (14 days)	Unit Preview/BlackBoard 04:Food Web Complexity, Paine / 05:Survival of the Sweetest / 06:Call of the Wild / 07:Thinking Like A Mountain / 08:Biology Lab 12 - Primary Productivity September 19 - No School	
9-10	5		Introduction; Levels of Organization; Biomes (discussed throughout the year); Interactions among Species; Biodiversity (discussed throughout the year); Energy in the Living World; Ecosystem Services; Ecological Succession; Natural Selection; Endangered Species; Invasive Species; Relevant Laws and Treaties		
11-12	6				
13-14	7				
15-16	8				
17-18	9				
19-20	10				
21-22	11				October 9 - 26
23-24	12	Introduction; Carbon Cycle; Nitrogen Cycle; Water/Hydrologic Cycle; Phosphorus Cycle; Sulfur Cycle; Climate; Weather; Seasons and Solar Intensity; Stratospheric Ozone; Greenhouse Gases and Greenhouse Effect; Climate Change; Loss of Biodiversity; Relevant Laws and Treaties			
25-26	13				
27-28	14				
29-30	15				
31-32	16				
33-34	17				
35-36	18		October 29 - November 16	Populations (14 Days)	Unit Preview/BlackBoard 14:Baby Dice Island / 15:Desert Bajada Population Lab November 6 AP Content Workshop Day 1
37-38	19	Introduction; Population Ecology; Exponential Growth; Logistic Growth; Reproductive Strategies; Survivorship Curves; Population Sampling; Age-Structured Diagrams; Demographic Transition			
39-40	20				
41-42	21				
43-44	22				
45-46	23				
47-48	24				
49-50	25	November 19 - December 10	Geology and Soil (14 Days)	Unit Preview/BlackBoard 16:Sands of Time / 18:Soil Texture and Nutrients November 22-23 - No School	
51-52	26		Introduction; Geologic Time; Mass Extinction; Plate Tectonics; Earthquakes; Rocks; Minerals; Rock Cycle; Soil Formation; Soil Composition; Soil Types; Soil Erosion; Soil Conservation; Relevant Laws		
53-54	27				
55-56	28				
57-58	29				
59-60	30				
61-62	31				

63-64	32	December 11 - January 11	Land and Water Use (18 Days)	Unit Preview/BlackBoard December 24-January 1 - No School
65-66	33		Introduction; Converted Biomes; Agriculture; Pest Control; Invasive Species; Rangelands; Mining (minerals and metals); Other Land Use; Converted Water Biomes (fresh and marine); Aquaculture; Fishing Techniques; Overfishing; Groundwater; Sustainable Practices; Global Water Use; Global Economics	
67-68	34			
69-70	35			
71-72	36			
73-74	37			
75-76	38			
77-78	39			
79-80	40			
81-82	41	January 14 - February 13	Energy (16 Days)	Unit Preview/BlackBoard 19:Candle Calorimetry January 21 - No School February 5 - No School January 28 AP Content Workshop Day 2
83-84	42		Introduction; Forms; Units; Law of Thermodynamics; Energy Use (domestic and worldwide); Production of Electricity; Nonrenewable; Coal; Oil; Natural Gas; Nuclear; Renewable; Hydroelectric; Solar; Wind; Other Renewable; Environmental Advantages/Disadvantages; Energy Conservation/ Relevant Laws and Treaties	
85-86	43			
87-88	44			
89-90	45			
91-92	46			
93-94	47			
95-96	48			
97-98	49	February 14 - March 8	Atmosphere and Air Pollution (12 Days)	Unit Preview/BlackBoard 22:Acid Rain Drops Keep Falling February 18-22 - No School
99-100	50		Introduction; Composition and Structure; Climate (review); Atmospheric Circulation; Oceanic Circulation; ENSO; Air Pollution; Ozone (tropospheric and stratospheric); Relevant Laws and Treaties	
101-102	51			
103-104	52			
105-106	53			
107-108	54			
109-110	55	March 11 - April 1	Pollution (16 Days)	Unit Preview/BlackBoard 20:Is Dilution the Solution to Pollution / 21:Life on the James
111-112	56		Introduction; Land Pollution; Landfills; Impacts on Land and Human Health; Water Pollution; Waste Water Treatment; Impacts on Water and Human Health; Hazardous Waste; Pollution History; Love Canal; Economic Impact; Relevant Laws and Treaties	
113-114	57			
115-116	58			
117-118	59			
119-120	60			
121-122	61			
123-124	62			
125-126	63	April 2 - April 11	Global Policy and Toxicity (6 Days)	Unit Preview/BlackBoard 23:LD-50 Soil Salinization (start early)
127-128	64		Introduction; Economics; Laws and Treaties; Social Policies; Toxicity; LD-50; Biomagnification	
129-130	65			
131-140	66-70	Review for the AP Exam: Exam Date May 6, 2019 - 12:00 PM		

*90 Minutes

*180 Minutes

Student study sessions held on Saturdays

Textbook: *Environmental Science* - Friedland