

AP Environmental Science Recommended Major Topics that correspond to the CHP curriculum

		Earth Systems & Resources				The living world					Pollution			Global Change		
Lesson		A – earth science concepts	B - atmosphere	C- global water resources & use	D- soil & soil dynamics	A – ecosystem structure	B- energy flow	C- ecosystem diversity	D – natural ecosystem change	E – natural biogeochemical cycles	A – pollution types	B – impacts on health & environment	C – economic impacts	A – stratospheric ozone	B – global warming	C – biodiversity loss
	A1- A Journey Down the Hudson River			X												
	A2- Hudson River Tides			X												
	A3- Watersheds			X				X								
	A4- Hudson Valley Rocks	X			X											
	A5- Glacial Groundwater	X		X	X											
	B1- Hudson Food Webs					X	X	X	X							
	B2- Biomaniipulation						X	X								
	B3- An Aquatic Ecosystem					X	X	X	X							
	B4- Ecosystem Disturbance						X	X		X	X					
	B5- The Nitrogen Cycle						X			X						
	C1- Introduction to Dissolved Oxygen						X									
	C2- Understanding and Creating Graphs in Excel															
	C3- Inquiry Oxygen						X									
	C4- Dissolved Oxygen and Temperature	X					X	X			X					
	C5- Respiration						X									
	C6- Photosynthesis						X									
	C7- Animals and Dissolved Oxygen					X	X				X					
	C8- Photosynthesis and Respiration Combined						X									
	C8A- Aquatic Interactions					X	X									
	C9- Dissolved Oxygen and Decomposition					X	X									
I	2B1- Zebra Mussel Invasion					X		X	X				X			X

	2B2- Graphing Zebra Mussel Data					X		X	X							X
	2C1- Aquatic Plant Invasion					X		X	X				X			X
	2C2- Graphing Water Chestnut Data					X		X	X							X
	2C3- The Effect of Water Chestnuts on Macroinvertebrates					X		X	X							X
	2C4- Water Chestnut and Hypoxia					X		X	X							X
	2D: Common Reed, A Marsh Invasive					X		X	X				X			X
	2E: Invasive Species Research Project					X		X	X				X			X
<i>Weather & Climate</i>	3A1- What about carbon dioxide?		X							X	X	X				X
	3A2- Effects of Temperature on Organisms		X			X					X	X				X
	3A3- Long-Term Temperature Changes in the Hudson River		X			X		X			X	X				X
	3A4- Climate Change Solutions Summit		X								X	X	X			X
	3B1- Storms & Streams		X	X	X						X					
	3B2- A Storm's Effect on Wappinger Creek		X	X	X						X					
	3B3- Hurricane!		X	X							X					
	3B4- How Much Water is in That River?		X	X												
<i>Pollution</i>	4A1- Water Quality Introduction			X							X	X				
	4A2- Is our water healthy?			X							X	X				
	4A3- Importance of Soils			X	X							X				
	4A4- Permeability of Soils			X	X							X				
	4A5- School Water Budget			X						X		X				
	4A6- Land Use & Water Quality			X							X	X				X
	4A7- Bottled vs. Tap Water			X							X	X	X			X
	4B1- How much salt?			X		X		X			X	X				X
	4B2- Why is it so salty?			X							X	X				X
	4C1- Can you swim in the Hudson?			X							X	X	X			X
4C2- Historic Water Pollution			X							X	X				X	
4 C4- The Hudson and Eutrophication										X	X	X			X	
<i>Land Use</i>	5A-Land Use Change Introduction	X														X
	5B- Paleoclimate in the Hudson Valley	X														X
	5C- Land Use Change Since 1609															X
	5D- Importance of Soils			X	X							X	X			

