AP Environmental Science

Summer Assignment Part 1:

Read and take notes on Chapter 2 in your textbook. This chapter is focused on scientific content and skills that are typically covered in courses prior to AP Environmental Science. So, you will probably find that this material is review.

Summer Assignment Part 2:

You will be asked to watch a video called Home. It can be accessed at the following link for free....

http://www.youtube.com/watch?v=jqxENMKaeCU&feature=watch-now-button&wide=1

You can use the questions on the following page as a guide when watching this video.

What will be expected:

You will be taking a test on all of the content mentioned above within the first week of school. So, read, watch and be prepared to discuss all of this material in class. This will help you prepare for our first test in the fall.

If you have any questions this summer, please feel free to contact us. The best way to contact us over the summer will be through the following e-mail addresses:

Mr. Grasso- mgrasso@fairfieldschools.org
Mrs. Racioppo- jracioppo@fairfieldschools.org
Mrs. Wolfer- jwolfer@fairfieldschools.org
Mr. Foster- fostersenvironment@live.com

Home Questions Summer 2012

1.	What does the following term mean- <i>Homo sapiens</i> ?
	When did life originate on Earth?
	When did <i>Homo sapiens</i> originate?
	What was our planet like originally?
	What was a cloud of a good knitted dust particles similar to so many similar clusters in the universe?
	What was our Earth like at its birth?
	Why was it important for the Earth to be at the right distance from the sun-not too far, not too near?
	How is the water cycle described?
	How did the ocean get salty?
	What is shared by every life-form on our planet?
	What originated as stardust?
	What provides the Earth's red, black, blue, and yellow?
	Where did life first spark into being?
14.	What fed off the Earth's heat?
15.	What organism were the first that had the capacity to turn to the sun to capture its energy?
16.	How did these organisms change the destiny of our planet?
	What happened to the carbon that poisoned the atmosphere?
	How much time can be read in the walls of Colorado's Grand Canyon?
	How did the organisms grow their shells?
	What happened to the shells of the microorganisms that died?
	What did plant life finally do?
	What is the Earth's water cycle?
	Why is water called one of the most unstable of all?
	What happens when water freezes?
	What is the engine of life?
	Why are water and air inseparable?
	What are the green organisms that supply% of the oxygen?
	Coral is the mutualistic relationship between what two organisms?
	Where is, and how big is, the Great Barrier Reef?
	The Great Barrier Reef has species of fish, species of mollusks and species of
50.	coral.
31	It took more than years for it to make trees.
31.	In a chain of species, why are trees a pinnacle species?
	Trees have inherited from the power to capture light's energy.
	Why are trees so important for the formation of soils?
	Soils are the factory of
	How is soil a world of incessant activity?
	Why is it said that the Earth is a miracle?
	What is meant by the phrase that "Every species has a role to play"?
	Humans settled down after nomadic years.
	The was, an invention that opened up new horizons and turned humans into navigators.
	The majority of mankind lives
	The first grew up less than 6000 years ago.
	One in people still use only the strength of their bodies.
	billion human beings is more than the combined population of all the wealthy nations.
45.	are a family's only asset, as long as every extra pair of hands is a necessary contribution to its
4.0	subsistence.
46.	feeds people, clothes them and provides for their daily needs. Everything comes from the Earth.
	How did towns change humanity's nature as well as its destiny?
	The physical energy and strength with which nature had not endowed them was found in
	was humans' first great revolution that was developed barely years ago.
	The uncertainty of resulted in the first surpluses and gave birth to cities and civilizations.
51.	Humans harnessed the energy of animal species and plant life, from which they at last extracted

the____.

52.	are the yeast of life.
53.	The principal daily concern of all humans is to
54.	of humankind tills the soil over of them by hand.
	What is the pure energy-the energy of the sun-captured over millions of years by millions of plants
	more than a hundred million years ago?
56.	In the last years, the Earth's population has almost, and over people have
	moved to the cities.
57.	Today, over of the world's inhabitants live in cities.
	resulted in the invention of which in turn permitted the invention of skyscrapers.
	A of oil generates as much energy as in 24 hours, but worldwide only percent
	of farmers have use of a tractor.
60.	In the United States, only farmers are left. (Equal to number of people in jails and prison in
	US)
61.	They produce enough grain to feed people. But most of that grain is used to feed or
62.	Agriculture accounts for% of humanity's water consumption.
	, another gift of the petrochemical revolution, exterminated
64.	Toxic pesticides seeped into the .
65.	of the varieties developed by farmers over of years have been wiped out.
	How can a growing worldwide demand for meat be satisfied without recourse to farms?
67.	The result is that it takes of water to produce one kilogram of potatoes, for one kilo or
	rice and for one kilo of beef.
68.	We know that the end is imminent, but we refuse to believe it.
	The automobile shapes , a safe distance from the asphyxiated ,
	and where neat rows of houses huddle round
70.	If LA's model were followed by all, the planet wouldn't have vehicles, as it does today,
	but
71.	Everywhere, machines dig, bore and rip from the Earth the pieces of stars buried in its depths since its
	creation:
72.	As a privilege of power, % of this mineral wealth is consumed by % of the world's
	population.
	Before the end of this century excessive will have exhausted nearly all the planet's
	Since, the volume of international trade has increased times over.
75.	percent of trade goes by sea million containers are transported every year headed for
= (the world's major hubs of consumption.
	is one of the biggest construction sites in the world, a country where the impossible becomes
77	possible. The easen severe servers of the planet
	The ocean covers of the planet. The remain a secret. They contain of species whose existence remains a mystery to us.
	The remain a secret. They contain of species whose existence remains a mystery to us. Since, fishing catches have increased, from to million metric tons a
1).	year.
20	of fishing grounds are exhausted, depleted or in danger of being so. Most large fish have been
00.	fished out of existence since they have no time to Fish is the staple diet of one in five humans.
81.	humans live in the world's desert lands, more than the combined population of
	What is fossil water?
	Across the planet, one major river in no longer flows into the sea for several months of the
	year.
84.	Lake Powell took to reach high-peak mark. Its level is now of that.
	Water shortages could affect nearly people before
86.	These wetlands are crucial to all life on Earth. They represent percent of the planet. What are
	wetlands?
87.	Trees provide a habitat for of the planet's biodiversity-that is to say, of all life on Earth. Every
	year, Why is this biodiversity important?
	What are mangrove forests and why are they important?
	Every year, hectares of tropical forests disappear in smoke and as lumber.
	What happens when the rain forest burns?

91.	How long did it take Borneo's vast primary forest to totally disappear?		
92.	Over people-almost a of the world's population-still depend on charcoal for cooking		
	and heating.		
93.	On the hills of Haiti, only percent of the forests are left.		
	What is the story of the Rapa Nui, the inhabitants of the Easter Island?		
	In years, the gap between rich and poor has grown wider than ever. Today, of the		
,	world's wealth is in the hands of the richest percent of the population.		
96	One human being in now lives in a precarious, unhealthy, overpopulated environment, without		
70.	access to daily necessities, such as water, sanitation or electricity. Hunger is spreading once more. It		
	affects nearly people.		
07	It's all about carbon. Under the effect of global warming, the ice cap has lost % of its thickness		
<i>)</i>	in years. Its surface area in the summer shrinks year by year. It could disappear before		
90	By, a of the Earth's species could be threatened with extinction.		
	Around the North Pole, the ice cap has lost % of its surface area in years.		
100	<u> </u>		
101	will rise by nearly meters.		
101			
102	centimeters.		
102	. Coral reefs, for example, are extremely sensitive to the slightest change in water temperature.		
102	percent have disappeared.		
103			
104	invade the water table, depriving inhabitants of drinking water.		
104			
105			
106			
107			
	countries.		
108			
109			
110			
111			
112			
113			
114			
115	extinction		
115			
116			
117	e 1		
118			
119			
120			
101	barely years, it has changed the lives of people around the world.		
121			
122			
100	friendly district in		
123			
	coal-fired generating plants are built in alone.		
124			
already created over jobs.			
125	• In hour, the sun gives the Earth the same amount of energy as that consumed by all		
	humanity in year. As long as the Earth exists, the sun's energy will be inexhaustible.		