

Mr. Freeman's  
AP Environmental Science  
Summer Homework



**Choose from one of the following assignments:**

- 1) **One hit wonder, three pages:** You are an up-and-coming rock star whose music is environmentally and politically grounded. Write a song or at least lyrics that focus on an environmental issue that is important to you. In addition to your original masterpiece, find at least one other environmentally themed song: print out the lyrics and write a brief summary of the issue that group focused on.
- 2) **Three works of art, minimum size requirement for each: 8 ½ by 11:** Pick three topics that you want to illustrate from the choices below through drawing, painting or collage. Each illustration must have a visual correlation with one of the choices below. List the concept you chose on the back of each illustration. Don't use the same concept more than once.
  - a. Create an abstracted self portrait showing your relationship to the environment. Reflect your addiction to energy and your perceived significance on earth.
  - b. Develop an illustration that portrays the growth of the industrial revolution and how it has affected the health of our global ecosystem.
  - c. Create an illustration that shows the arguments for using genetically engineered foods while also depicting their potential dangers.
  - d. Develop an illustration showing some of the negative consequences of pesticide use.
  - e. Make an illustration that could help people understand the meaning of the word sustainability.
  - f. Make an illustration that reflects at least two negative impacts of population growth.
- 3) **Proposal: 5 REALISTIC environmental strategies, two to three pages:** Write a proposal that outlines 5 REALISTIC environmental strategies that could potentially be applied in the classroom on a daily basis by our Environmental Science Class.
- 4) **Graph + paragraph:** Make a lineplot (that would be a graph) based off of the global weather data on the back of this page. Write a paragraph that explains and analyses your findings.
- 5) **Stepping Stones:** Make three concrete stepping stones as described on the following page. These stepping stones will be used to make a path in the AP Environmental Garden. Texture the concrete with a design or phrase that will relate to the idea of environmental sustainability.

**Lineplot Values:**

Year	Min Temperature Anomaly, °C	Year	Min Temperature Anomaly, °C
2005	1.16	1933	-0.6
2004	0.74	1932	1.14
2003	1.03	1931	-0.1
2002	1.45	1930	-0.71
2001	1.16	1929	-1.19
2000	0.53	1928	0.19
1999	1.19	1927	-0.32
1998	0.87	1926	0.33
1997	0.48	1925	-0.06
1996	0.05	1924	-0.93
1995	1.27	1923	0.35
1994	0.49	1922	-1.15
1993	0.83	1921	0.69
1992	1.19		
1991	0.81	1920	-0.27
1990	0.75	1919	-0.28
1989	0.47	1918	-1.2
1988	0.78	1917	-1.02
1987	0.08	1916	0.12
1986	0.58	1915	-0.27
1985	-0.0	1914	0.68
1984	0.21	1913	-0.26
1983	0.95	1912	-1.19
1982	-0.37	1911	-0.63
1981	1.06	1910	0.01
1980	-0.0	1909	-0.75
1979	-0.17	1908	-0.38
1978	0.19	1907	-0.73
1977	-0.59	1906	0.35
1976	-0.05	1905	-0.66
1975	0.37	1904	-1.35
1974	-0.25	1903	0.13
1973	0.13	1902	-0.0
1972	-1.03	1901	-0.17
1971	-0.11	1900	-0.14
1970	-0.31	1899	0.29
1969	-0.89	1898	0.62
1968	-0.54	1897	-0.51
1967	-0.35	1896	-0.15
1966	-0.35	1895	-1.25
1965	-0.12	1894	-0.67
1964	-0.06	1893	-3.14
1963	-0.51	1892	-1.17
1962	0.1	1891	-0.63
1961	0.08	1890	-0.22
1960	-0.02	1889	-0.34
1959	0.11	1888	-1.6
1958	0.56	1887	-1.25
1957	-0.36	1886	-1.28
1956	-0.43	1885	-2.41
1955	0.41	1884	-1.12
1954	-0.89	1883	-1.69
1953	-0.02	1882	0.31
1952	0.07		
1951	-0.83	1881	-2.4
1950	-1.18	1880	-0.66
1949	0.45		
1948	0.32		
1947	-0.59		
1946	0.17		
1945	-0.4		
1944	0.92		
1943	-0.84		
1942	-0.32		
1941	-0.45		
1940	-1.44		
1939	0.15		
1938	0.28		
1937	-0.46		
1936	-0.38		
1935	-0.58		
1934	-0.13		