**Redesigning the Materials Economy**

1. List the 8 components of redesigning the materials economy that this article mentions.
2. Pick 4 that you think we could implement right now.
3. What steps has Japan and Germany recently taken to implement the 1st component? Who has to pay for this? How much?
4. When did Denmark ban soft-drink containers? When did they ban beer containers?
5. What is a hidden cost to not banning one way drink containers?
6. When discharging pollutants into the air, why are today’s manufacturers different than their historical counterparts? What has Dupont adopted as its goal?
7. What does systematically clustering factories help to reduce?
8. What was President Clinton’s Executive Order in 1993? How did it change in 2000?
9. Who is the world’s largest paper buyer?
10. What was the number of newsprint recycling facilities in the US in 1988? In 1994?
11. What do cellular phones that rely on radio waves, allow developing countries not to have to build, that already-developed countries had to have to build before?
12. Do you have a land line phone at home?
13. Before 1992, what was the main way that governments tried to reduce material waste?
14. What was the traditional assumption of a healthy economy?
15. What does this article to suggest replacing automobiles in large cities with?
16. What industry is the leading user of material including steel and cement?
17. What is the majority of gold that is mined used for these days?
18. What is the term used to describe what gold mining operations look like? \
19. Which two deadly chemicals are used in processing the gold ore?
20. Which two suggestions does this article propose to phase out gold mining?
21. How much more does bottled water cost than tap?
22. What would phasing out bottle water eliminate?
23. What is the most pervasive policy initiative to dematerialize the economy?
24. What is the challenge in building an eco-economy materials sector?
25. After reading this article, what new laws would you suggest to lesson consumption and pollution?