

RC Environmental Leadership & Careers Seminar (ELCS)
Master Recycler Class
R101 - Study Guide
Chapter Seven – Sustainable Materials Management

Due Friday November 18, 2016

Name _____

Date _____

Log in to your R101 site and go to the Chapter/Module SEVEN entitled *Sustainable Materials Management*. Click through the pages and answer the study guide questions below. Some pages won't contain answers to the questions on the Study Guide.

1. What is Sustainable Materials Management (SMM), also known as Life Cycle Analysis?
2. What is the aim of SMM?
3. Why / how does it create a more thorough understanding of the environmental costs of a product or service?
4. Site FIVE facts from the US EPA report entitled *Sustainable Materials Management: The Road Ahead* that you think are important.
5. In what ways does growing population affect our current consumption patterns?
6. What is an externalized cost? How is water an example?
7. What is an externalized benefit? Provide an example.
8. Which elements of the consumption cycle produce the most greenhouse gases? List the top THREE.
9. What is an "upstream" process?
10. How much does disposal account for in terms of Greenhouse Gas emissions? Why is that significant?
11. Why is recycling an important component of SMM?
12. How do reducing and reusing affect SMM?
13. According to research, what's the best way for businesses to package their products?
14. What is "product stewardship?"
15. Who is responsible for reducing environmental impacts under the product stewardship model?
16. What is EPR?
17. What is Oregon's Paint Care program?
18. Define the following—advanced disposal fees, pay-as-you-throw fees, governmental mandates, and tipping fees.
19. What's the Natural Step Framework?
20. What's Cradle-to-Cradle design?

21. Explain Supply Chain Management.
22. What's Green Procurement?
23. What is Green Building?
24. What strategies can reduce the impact of building and construction projects?
25. What we've learned is that most of the environmental and health impacts of producing and using our products happen upstream, well before they enter a landfill or recycling facility. Explain.