

Lesson Plan 1: The 4 R's

Name _____ Date _____

Solid Waste and Climate Change Worksheet

Visit the websites listed below and answer the following questions.

- US Environmental Protection Agency (EPA) www.epa.gov/methane/index.html
- Waste Management www.thinkgreen.com/landfill-gas-to-energy

- 1) Which is the more potent component of climate change – methane or carbon dioxide? Be sure to support your conclusion with data.
- 2) What progress does the EPA report that the US is making in reducing the methane component of global warming?
- 3) What are the connections between eating meat and methane?
- 4) Consider the generation of methane in a controlled environment, such as a landfill, and how it can be captured and converted to energy. Why are there no harmful or negative impacts on the environment in this case?
- 5) What solutions does the EPA propose to reduce the impact of the waste stream on climate change?
- 6) Additional student questions(s):