



EXPERIMENT 12: Energy from Garbage

Instructor's Guide

ALIGNMENT WITH ILLINOIS STATE BOARD OF EDUCATION GOALS

State Goal 11: Section A: 2a, 2b, 2c, 2d 2e and 2f	State Goal 12: Section C: 2b	State Goal 13: Section A: 2b and 2c Section B: 2c and 2f
---	--	---



WHAT'S HAPPENING?
Just add water
 When you add water to the beans, it triggers a reaction that releases a natural gas. There is a very complex answer that involves sugars, solubility and high level chemistry, but the end result is the same—beans and water create gas.

WHAT COULD GO WRONG?
 Be sure the bags are sealed tightly.

WHAT ELSE CAN KIDS LEARN?
Who's an old gas bag?
 Tell the students that next time they are in the grocery store, they should check and see if bags of dry beans are swollen.
Bean Powered Cars?
 Ask the students if they think the gas could be used as a source of energy. Ask why and how.

LINKS
www.NEED.org

YOUR FEEDBACK
 Were the instructions clear?
 Did the class stay interested?
 Email us at feedback@Get2KnowH2O.org and let us know what you think. We would like to share your suggestions with other teachers and give you credit for your great ideas!

CREDITS
 The NEED Project PO Box 10101
 Manassas, VA 20108
 1-800-875-5029