

DOINGWHATWORKS



SAMPLE MATERIAL

Career Brochure: Environmental Engineering

Clarke N. Johnsen Junior High School, Utah

Topic: Encouraging Girls in Math and Science

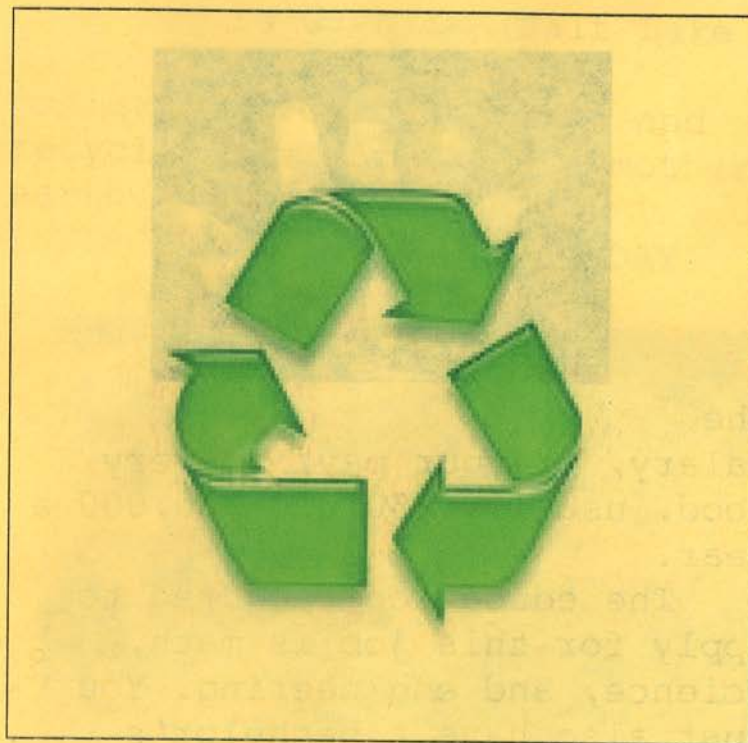
Practice: Sparking Curiosity

Mrs. Clegg-Patch, a science teacher at Johnsen Junior High School, uses the career brochure assignment to encourage girls to learn about a science career they might pursue. Before doing this assignment, she takes her students to a career forum held at a local university, specifically focused on successful women scientists and engineers. She builds on the students' enthusiasm after the field trip by asking them to select a career in science that interests them, learn more about it, and develop a career brochure. The students present their brochures to the class, and answer questions about their choices. Although this activity includes both boys and girls, it is especially useful to have the girls imagine themselves as future scientists and engineers.

In this brochure, a student describes the job of environmental engineers and the appeal of doing the work.

**welcome to the
wonderful world of
environmental
engineering**

Helping make the world
a better place.



Welcome to the world of environmental engineering! The types of tasks you do in this occupation are:

- control water
- control air pollution
- recycle
- help waste disposal systems
- help with public issues
- hazardous-waste management



The salary, or your pay, is very good, usually \$50,000-\$60,000 a year.

The education required to apply for this job is math, science, and engineering. You must also have a bachelor's science degree, a Master's

degree, and (if you can afford it), a Ph.D. Even though it is not required, you may have some advantages.

This job is very enjoyable and you get the feeling of happiness when you make a difference in this world by helping the environment. You also get to travel around the world! A good place to start this job is downtown Salt Lake City. The air is full of pollution from factories, and recycling is critical to mother earth. So get a job as an ENVIRONMENTAL ENGINEER TODAY!



Figure 1: A diagram of a wastewater treatment plant, showing some of the various stages of treatment. The diagram is labeled with various parts of the plant, including 'Influent', 'Aeration', 'Settling', 'Sludge', and 'Effluent'. The background is a light blue sky with some clouds.