Operation: **RECYCLE**

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Class: Physics and Human Affairs  
M/W 2:00-5:00pm
Introduction

Purpose: We want to improve recycling and pollution awareness for the local community and Northwest Arkansas.

We want to specifically educate others on recycling.
Law of Energy Conservation states that the total amount of energy in a closed system remains constant. A consequence of this law is that energy cannot be created nor destroyed. The only thing that can happen with energy in a closed system is that it can change forms, for instance chemical energy can become thermal energy.

Because of the Law of Energy Conservation, we need to recycle more and continue to find new ways of reusing all materials.
Project Objective

• Our project was to inform the community on the importance of recycling and how they can do their part to keep our planet clean.
• Our project will benefit the community, our planet, NWACC, ourselves, and those to come behind us.
- We visited some area recycling centers
- We were able to gather a lot of information and facts on recycling with some researching
- We were able to create an informative brochure to educate the community on recycling facts, tips, and where to recycle.
- We distributed our brochure by placing them in the NWACC newspaper and putting them in strategic areas.
Technology Used

- Resources and Technology that will be used:
  - Microsoft PowerPoint
  - The Internet
  - Microsoft Publisher
  - Digital Camera
  - FedEx Kinko's
  - Cell Phones
Contacts Made

- The NWACC newspaper (Eagle View)
- The Bella Vista Recycling Center
- The Rogers Recycling Center
- Diana Phillips
- Delcie Kincaid (Student Editor of Eagle View)
How did we do it?

– We researched the dangers of pollution and the advantages of recycling.
– We have met with local recycling facilities and “shadowed” them in order to find out more on recycling and pollution.
– We decided to make an informative brochure to put out in local papers and throughout the public.
– Through our brochure, we hopefully to made an impact on others for the sake of bettering our atmosphere and our earth.
Skills Developed

• Teamwork
• Better communication skills
• We learned how to be more effective with our research.
• We learned how to recycle more and how to promote it ourselves.
• We learned how to organize our project and distribute the work evenly.
• We learned how to manage our time as a group better.
Timeline

- October 7th - met with local recycling centers
- Oct. 14th Started developing the brochure
- Oct. 21st Finished rough draft of brochure
- Oct. 28th Finished brochure
- November 4th Project update
- Nov. 11th Met with Eagle View (NWACC paper) for the possibility of putting our brochure in the paper.
- Nov 16th Met with FedEx Kinko's for the purpose of printing off our brochure.
- Nov 30th Distributed our brochure throughout NWACC and the community.
Aluminum Facts

- Making new aluminum cans from used cans takes 95 percent less energy than using virgin materials.
- Recycling one aluminum can saves enough energy to keep a 100-watt bulb burning for almost four hours or run your television for three hours.
- Tossing away an aluminum can wastes as much energy as pouring out half of that can's volume of gasoline.
- An empty aluminum can is worth about one cent.
- Aluminum cans are unique: within 60 days, a can is recycled, turned into a new can and back on store shelves.
· America uses 85,000,000 tons of paper per year; about 680 pounds per person.
· Approximately 1 billion trees worth of paper are thrown away every year in the U.S.
· Each ton (2000 pounds) of recycled paper can save 17 trees, 380 gallons of oil, 3 cubic yards of landfill space, 4000 kilowatts of energy, and 7000 gallons of water. This represents a 64% energy savings, a 58% water savings, and 60 pounds of less air pollution!
The most common plastics recycled are PET [#2] bottles (soda or water) and HDPE [#1] bottles (milk and laundry detergent).

These #1 and #2 plastics accounts for 96% of the plastic bottles in the U.S. market.

More than 2.3 billion pounds of plastic bottles were recycled in 2007.

Recycling a ton of PET saves 7.4 cubic yards of landfill space.

Half of all polyester carpet manufactured in the US is made from recycled plastic.
Steel Facts

- Americans use 100 million steel cans every day.
- The steel industry’s largest source of raw material is scrap metal, which is commonly collected by recycling steel.
- One ton (one car saves) of recycled steel saves 2,500 pounds of iron ore, 1,400 pounds of coal and 120 pounds of limestone.
- Recycled steel is made into steel cans, building materials, tools – in fact, almost everything steel.
Recycling Centers in NWA

Rogers Iron & Metal Corporation
721 N Arkansas St, Rogers, AR - (479) 636-2666

Batteries Plus - The Battery Store
4500 W Walnut St, Rogers, AR - (479) 631-7587

Rogers Recycling Center
315 W Olive St, Rogers, AR - (479) 621-1185

Lowell Recycling Center
117 N Bloomington St, Lowell, AR - (479) 770-6120

Advanced Environmental Recycling
914 Jefferson St, Springdale, AR - (479) 756-7400

Can Man Recycling Center
905 Hembree Ave, Springdale, AR - (479) 751-9571

Recycling AARP Center
400 Pinion Valley Dr, Bella Vista, AR - (479) 876-5343

Allied Waste
36 Bella Vista Way, Bella Vista, AR 72714