

Newspaper in Education Presents

# inquizi

# Kidz

BROUGHT TO YOU BY MANATEE COUNTY'S MAGNET SCHOOLS & ADULT CAREER & TECHNICAL EDUCATION



## Discover the Future

Are you an environmentalist at heart? Whether you want to work outdoors, in sales, or developing new products, there are many jobs available in the recycling industry.

- Environmental Scientist
- Recycling Program Manager
- Composting Technician
- Recycling Coordinator
- Plastics Recycling – New Product Development
- Director of Recycling Plant Operations
- Recycling Education Specialist
- Wood Recycling Specialist
- Solid & Hazardous Waste Management Specialist
- Concrete & Asphalt Recycling Specialist

For more career information see your school counselor and get information on-line at:  
<http://jobstar.org/tools/career/spec-car.cfm>  
 OR  
<http://www.acinet.org/acinet/default.asp>



### explore it

## A Recycling Scavenger Hunt

Put some of your new code knowledge to work. Get together with some friends for a unique game of Recycling Code Scavenger Hunt. Set a time limit of one hour. Happy code hunting!

1. Make a list that includes all seven of the recycling codes. Make enough copies for your friends.
2. Ask your parents (and your friends' parents) for permission to go through your cupboards and pantry (and bathrooms!) to locate items with plastic recycling codes.
3. Write down the product name and code (for example: Suave Shampoo #1) next to the appropriate recycling code. Make sure to put everything back in its proper place.
4. Divide and conquer! If you'd like, spend 15 minutes at several different houses to find different types of containers.
5. At the end of the time limit, get together to see who was the best recycling detective. The one with the most diverse products on the list wins!

**And remember; when those containers are empty...recycle!**

In last weeks Inquizikidz page there was an error on the Manatee Magnet Schools and Related Themes. Lincoln Middle School was missing and Lee Middle School's theme was incorrect.  
 Lincoln Middle School = Math, Science Technology (With Medical and Environmental Science)  
 Lee Middle School = Arts and Communication

### kidzbiz

## Michael Bowman: a hands-on, hard-working, tech-talking guy

by Leslie Rowe

When Lakewood Ranch senior Michael Bowman broke his neck in a car accident, it may have slowed him down for a few months. But this honors student stays busy as a member of the Technology Student Association (TSA), Key Club, Lakewood Leaders, and the Mu Alpha Theta math tutoring program. Not to mention two part-time jobs!

Michael is a hands-on guy, which is why he's taken Tech Studies and/or CAD classes for all four years of high school. In Tech Studies, he's designed and built many projects while learning engineering technologies. In CAD, he's mastered AutoCAD software and 3D Studio Viz, an animated, photorealistic design program. Michael's hands-on talents extend beyond the classroom. At home, he restores cars and fixes things—big things—like water heaters, drywall, and carpentry jobs, to name a few!

Michael plans to study mechanical engineering in college. His older brother attends UF and has sent word that because of his technology classes at LRHS, Michael will have a huge jumpstart on his college engineering classes.

In April, Michael will compete in the TSA State Conference and Competition in Orlando. He's chosen to participate in the CAD 3D Engineering challenge and the Robotic competition. Good luck, Michael, and best wishes on your engineering career!

### School biz

## Harvey And McGrew -half a century of experience

by Leslie Rowe

Greg McGrew and Steve Harvey make quite a team as technology teachers at LRHS. Their combined experience adds up to 53 years!! (Steve's the old one!) Greg teaches Tech Studies, a hands-on "smorgasbord of technology." Students study over 20 different units

and then design and build projects using advanced tools such as the

computerized CNC Mill.

Greg's career spans 19 years; seven at LRHS. He enjoys working with his hands, so Tech Studies matches his natural talents.

After a 28-year career, Steve Harvey retired from teaching and his position as the Director of Sarasota County Technical Institute—and then got bored! He missed the interaction with students, so he came back to the classroom in 1999. Steve teaches drafting using AutoCAD, which he calls the "language of engineering and architects."

Together, this duo leads the school's chapter of TSA, working with students on community service projects and participating in competitions. They work well together, complementing each others' strengths and abilities.

To the young, Steve advises, "Put away your video games, and read—all software and technology have a strong foundation in reading!" To the old, Greg says, "Don't be afraid of technology—it's here to help us." Good advice for any age!



Greg McGrew and Steve Harvey

### Plastics Recycling

## Be a recycling detective

by Julie Gillies

Have you ever noticed the little triangle made of arrows on the bottom of your ketchup bottle, the shampoo bottle in your shower, or the bottled water you drink? You may have spotted those triangles with a number in the center and wondered what they are for. Actually, almost all plastic bottles and containers contain a *recycling code*, also known as a *Resin Identification Code*. Plastics need to be sorted before they're recycled. Since plastics are made up of many different types of materials, they can't be melted together and mixed. The number code inside the triangle identifies the type of plastic in the container, which expedites the sorting and recycling process.

Every number on a plastic container matches a specific type of polymer (which means *a natural or synthetic compound that consists of large molecules made from thousands of atoms*). Different plastics require different polymers. Plastics can be made to be flexible, stiff, transparent, or non-transparent to suit specific packaging needs.

There are seven recycling codes. The codes not only identify the type of plastic, they reveal the properties of the plastic, such as its resistance to impact, whether it's a good oxygen barrier, even whether it's clear or translucent. Below we'll examine the seven recycling codes by comparing rigidity and heat resistance of the material.

CODE	DESCRIPTION
1 PETE	<b>PETE</b> is short for <i>Polyethylene Terephthalate</i> . It has moderate to high rigidity but poor resistance to heat. Product examples include bottles for soft drinks, ketchup, and cooking oil.
2 HDPE	<b>HDPE</b> is short for <i>High Density Polyethylene</i> . It has moderate rigidity and good resistance to heat. Product examples include fruit juice bottles and liquid detergent jugs.
3 V	<b>V</b> stands for <i>Polyvinyl Chloride</i> . It has moderate to high rigidity and poor to fair resistance to heat. Product examples include pipes, shampoo bottles, and mineral water bottles.
4 LDPE	<b>LDPE</b> stands for <i>Low Density Polyethylene</i> . It has low rigidity and fair resistance to heat. Product examples include house wares and shopping bags.
5 PP	<b>PP</b> stands for <i>Polypropylene</i> . It has moderate to high rigidity and good resistance to heat. Product examples include household storage containers and rope fibers.
6 PS	<b>PS</b> stands for <i>Polystyrene</i> . It has moderate to high rigidity and fair resistance to heat. Product examples include foam plates and cups.
7 OTHER	<b>OTHER</b> means that it contains <i>other types of less commonly used plastics</i> . Product examples include syrup bottles and plastic lumber applications.

The next time you pick up a bottle of water to drink, you can impress your friends with your incredible knowledge of recycling codes. Just don't be surprised if they start calling you the code geek!

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Lakewood Ranch High School

- Ballard Elementary Magnet
- Daughtrey Preparatory Magnet
- Harllee Middle Magnet
- Johnson Middle Magnet
- Lee Middle Magnet



- Lincoln Middle Magnet
- Manatee Elementary Magnet
- Rowlett Elementary Magnet
- Tillman Elementary Magnet
- Wakeland Elementary Magnet

Schools listed in red offer instruction in the subject area featured in today's InquiziKIDz



- <http://florida-tsa.net>
- <http://www.nrc-recycle.org/>
- <http://www.epa.gov/students/>
- <http://www.plasticsresource.com>
- <http://www.americarecyclesday.org/>