

Largo Recycling green on Wheels!



INSIDE:

- How mixed recycling works

What on Earth is a Menzi?

- Protecting water from land litter
- Student art contest

The Claaaaaaw

- Kid's activity section



Tree-free communication

The City of Largo saves a lot of paper by using its website, Largo.com. Keep up with Largo's Recycling Program, Recreation Programming, Economic Development and more on Twitter, Facebook, YouTube and LinkedIn. Sign up for e-newsletters with the Largo Cultural Center, Library, LarGoing Green and more.

Connect With Us Today!



LarGoing green

What is LarGoing Green on Wheels?

LarGoing Green features Largo's Earth-friendly programs all in one place. Many of the City's large vehicles help us to protect our environment and create a safe community. Read this publication and visit LarGoingGreen.com to find out more.

In this issue of LarGoing Green:

Garbage Truck.....	3
Roll-off Truck.....	4
Frontloader Truck	5
Recycling Truck	6
Rearloader Truck	8
The Claw Truck.....	9
Street Sweeper.....	10
Menzi Muck	11
Fire Engine and Ladder Truck	12
Vactor Truck.....	13



Newspaper in Education

The Tampa Bay Times Newspaper in Education program (NIE) is a cooperative effort between schools and the Times Publishing Co. to encourage the use of newspapers in print and electronic form

as educational resources – a “living textbook.” Our educational resources fall into the category of informational text, a type of nonfiction text. The primary purpose of informational text is to convey information about the natural or social world.

Since the mid-1970s, NIE has provided schools with class sets of the daily newspaper plus award-winning original curriculum supplements, teacher guides, lesson plans, educator workshops and many more resources at no cost to schools, teachers or students. Each year, more than 5 million newspapers and electronic licenses are provided to Tampa Bay-area teachers and students free of charge thanks to our generous individual, corporate and foundation sponsors. NIE teaching materials cover a variety of subjects and are correlated to the Florida State Standards.

For more information about NIE, visit tampabay.com/nie, call 800-333-7505, ext. 8138 or email ordernie@tampabay.com. Follow us on Twitter at [Twitter.com/TBTimesNIE](https://twitter.com/TBTimesNIE).

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Credits

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This publication and its activities incorporate the following Florida Standards for elementary school students: **Language Arts** LAFS.L.1.2; LAFS.L.2.3; LAFS.L.3.4; LAFS.L.3.5; LAFS.RI.1.1; LAFS.RI.1.2; LAFS.RI.1.3; LAFS.RI.2.4; LAFS.RI.2.5; LAFS.RI.2.6; LAFS.RI.3.7; LAFS.RI.3.8; LAFS.RI.3.9; LAFS.W.1.1; LAFS.W.1.2; LAFS.W.1.3; LAFS.W.2.4; LAFS.W.2.5; LAFS.W.2.6; LAFS.W.3.7; LAFS.W.3.8; LAFS.W.3.10 **Mathematics** MAFS.OA.1.1; MAFS.OA.1.2; MAFS.OA.1.3; MAFS.OA.4.8; MAFS.4.MD.1.1; MAFS.MD.2.3; **NGSS Science** SC.3.N.1.1; SC.3.N.1.2; SC.3.N.1.4; SC.3.N.1.6; SC.3.P.8.3; SC.4.L.17.4; SC.4.N.1.1; SC.4.N.1.2; SC.4.N.1.5; SC.4.N.1.6; SC.5.N.1.1; SC.5.N.1.2; SC.5.N.1.5; SC.5.N.1.6 SC.5.P.13.1; SC.5.P.13.2



Garbage TRUCK

What is garbage?

Garbage includes nonrecyclable items such as food waste, Styrofoam® containers and packaging, plastic wrapping or bags, plastic toys, pet waste and chip bags.



Largo's orange garbage trucks empty your green, trash-only cart twice a week. They use a mechanical arm that can lift heavy garbage.

Place all trash that can fit inside it into the green cart. Do not place trash outside of or next to your green cart, except for yard debris.

Garbage truck specifications:

Technical Name: Automated side loader for refuse

Weight: 35,020 pounds

Color: Orange

Capacity: 30,000 pounds

Garbage truck features:

- Takes eight seconds to tip one cart
- For employees, the truck is safer and easier to use than the old trucks
- Garbage trucks are the same style and color as recycling vehicles
- Trash in the *green* cart is not recycled



If it fits...

No item that can fit in your cart should be placed outside of the cart.



Remember to space it!

Be sure to place your green container at least 3-4 feet away from any yard waste, recycling bins, mailboxes or other obstructions.

We can help!

Some garbage can't be recycled in your blue cart, but can be recycled at other places.

We can help!



Plastic bags and plastic wrapping can be recycled at most local grocery stores. Please recycle your clean plastic wrapping and bags at participating locations – not in your recycling cart.

We can help!



Styrofoam® takeout containers, egg cartons and packing materials are not recyclable in Largo's recycling carts or at drop-off centers. Clean your Styrofoam® containers and bring them to participating grocery stores that recycle. Check with local packing and shipping stores to see if they reuse packing material.

T Learning with the *Times*

Learning new words

Learning new words can be a lot of fun, but also challenging. Most vocabulary words are learned from context clues or good old-fashioned dictionary work. While you read this Newspaper in Education publication, be sure to highlight or circle words you don't know. Try to figure out their meanings by looking for clues in the sentences around them. Write down your best guess, and then look the words up in a dictionary. As a group activity, make a list of the words students identified and see which ones stumped the class. Next, use these words for a news scavenger hunt. See if you can find these words in the *Tampa Bay Times*. The group that finds the most words wins the game.

Recyclable items



- Plastic containers (butter tubs, fruit containers, cups, yogurt containers)



- Glass bottles and jars (clear, green and brown)



- Aluminum cans



- Paper milk and juice cartons and boxes



- Tin or steel food cans



- Aluminum foil and trays

- Aerosol cans



- Flattened cardboard



- Mixed paper (any paper item that tears)



Recycling TRUCK

Largo's orange recycling trucks collect your blue recycling cart once each week. They use a mechanical arm to empty the carts into the truck.

Place all your recyclable items into the blue cart. Do not place non-recyclable trash or yard waste in your recycling cart.

Recycling truck specifications:

Technical Name: Automated side loader for recycling

Weight: 35,020 pounds

Color: Orange

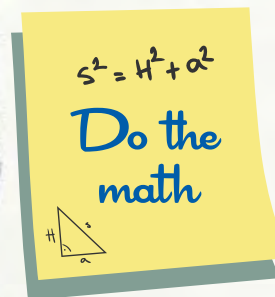
Capacity: 27,000 pounds

Recycling truck features:

- Takes eight seconds to tip one recycling cart
- More items can be recycled in each cart
- Same style and color as garbage vehicle, but branded for recycling



Shredded paper can be recycled! To prevent paper litter on your street, it must be placed in a paper (not plastic) bag prior to being placed in your recycling cart.



Waste calculation

The automated side loader for recycling weighs 35,020 pounds and has a capacity of 27,000 pounds. On average, an individual produces more than 4 pounds of recyclable waste per day. If the average household contains five people, calculate how much recyclable waste per day that household would generate. Next, calculate how much waste that household would produce in one week (seven days). Once you have that figure, determine how many households could be served by one automated side loader each week. In a short paragraph, write down how you came up with your answer.

How does *mixed* recycling work?



Step 1:

Place loose recyclables in your blue cart by 7 a.m. on your recycle day.



Step 2:

Be sure there are no obstacles within 3 feet of your cart.

What is *mixed* recycling?

Mixed recycling uses just one collection cart for all your recyclable items. The items are taken by the recycling truck to a recycling sorting facility, where they are separated.



Step 5:

Help close the loop by buying new items made from recycled material.

Step 3:

All recyclables will be taken to a materials recovery facility (MRF), a state-of-the-art facility that uses sorting screens, magnets, air blowers, conveyor belts and manual workers to help separate material by type.

Step 4:

The MRF sorts and bails the recycling items and then sends the recyclables to a factory that will make new materials out of your discarded materials.



Learning with the *Times*

Mixed recycling

Mixed recycling makes it possible to recycle more. Look through the pages of the *Tampa Bay Times* to find items that can be recycled. You can look at photographs, comics and advertisements. You can check LargoingGreen.com to help classify each item. Make a chart, listing each classification. Group items by type of waste (i.e., plastic, glass containers, metal, etc.).

Extension activity: Now that you have your lists, it is time to be creative: Write and illustrate a short story for each type of waste from the viewpoint of an item. If possible, add some impact numbers to your story. Share your stories with classmates, friends and family.

What's the big deal about plastic bags?

Plastic bags and plastic wrap get tangled in the recycling sorting machines. This damages the machines and slows down recycling. Please do not place your recyclables in a plastic grocery or trash bag. Plastic bags and plastic wrap can be recycled at most grocery stores. Ask how you can get a reusable recycling storage bag for your home – contact us at LargoRecyclesMore.com.



Drop-off recycling centers

Don't have curbside collection? Bring recycling to us! Largo has two convenient 24-hour drop-off recycling centers:

Starkey Road Recycling Center

1551 Starkey Road, between East Bay Drive and Ulmerton Road

Tri-City Plaza Recycling Center

At U.S. Hwy. 19 N. and East Bay Drive (open during construction)

Recyclable items

- Plastic containers (butter tubs, fruit containers, plastic plates and cups, yogurt containers, etc.)
- Mixed paper (any paper item that tears)
- Aluminum cans
- Aerosol cans
- Aluminum foil and trays
- Tin or steel food cans
- Glass bottles and jars (clear, green and brown)
- Flattened cardboard
- Paper milk and juice cartons and boxes

Roll-off TRUCK



The roll-off truck transports the big containers from Largo's two 24-hour recycling drop-off centers to the recycling sorting plant. Roll-off trucks are also used to transport loads of construction waste from construction sites.

Roll-off truck specifications:

Technical Name: Roll-off vehicle

Color: Orange

Truck Weight: 17,321 pounds without container

Container Weight: 4,600 pounds for empty recycling container

Roll-off truck features:

- Raises to 50-degree angle
- Can lift up to 75,000 pounds



Learning with the Times Re-purposing trash

Recycling is a great way to help protect the environment, but sometimes recycling is not possible. Repurposing trash means taking something that would have been thrown away and finding a new use or purpose for it. Largo's Recycled Innovations Contest encourages people to find a new use for items destined for the trash can. Look in the *Tampa Bay Times* for household items that cannot be recycled. How can you repurpose them? Plan out your Recycled Innovation and enter Largo's online contest at LargoRecycles.com.





Frontload TRUCK

The frontload truck is used to pick up dumpsters (big rectangular boxes for garbage or recycling) from businesses and multifamily residences like apartment complexes, condos and mobile home parks.

Frontload truck specifications:

Technical Name: Automated front loader

Weight: 30,600 pounds

Color: Orange

Capacity:

- 30,000-pound capacity for garbage
- 20,000-pound capacity for recycling

Frontload truck features:

- Takes 20 seconds to empty a dumpster



Business and multifamily recycling program

The City of Largo now offers its business and multifamily residential solid waste customers mixed recycling carts or dumpsters with once-a-week collection at no additional cost to the customer.*

* Where space permits. Fee for exclusive cardboard dumpster.

Getting started

For more information on the City of Largo's recycling program for businesses and multifamily facilities call 727-586-7424 or visit LargoRecycles.com.



$s^2 = h^2 + a^2$
Do the math

Weight lifting

A roll-off truck weighs 17,321 pounds without the container. An empty recycling container weighs 4,600 pounds. If the roll-off truck can transport 75,000 pounds, how many pounds of materials can be put into the container? Remember, the container's weight must be included in that calculation. Explain how you determine your answer. Is there more than one way to arrive at the same conclusion?

Think about it

Package particulars

Items that you buy in the store are pre-packaged. Products that are designed for individual servings tend to have more waste than traditional packing. Look in the advertisements and inserts in the *Tampa Bay Times*. Find six items with little to no packaging. For each item, explain why you think this is less harmful to the environment and whether or not it is more or less expensive to package the item in this manner. Share your thoughts and examples with your class.

Think about it

Cause and effect

Pollution is increasing at an alarming rate in the world and in our neighborhoods. Waste from products that help make our lives more convenient is causing havoc in the environment. Extra packaging and trash can result in water and air pollution. Look for an article in the *Tampa Bay Times* that focuses on pollution and/or waste. Discuss the article with your class. Write down the main points presented in the article. Discuss the ways you can offset this problem. As a class, write down the steps you can take to offset the problem. Then break into small groups and create a poster outlining those steps to share with others.

$$s^2 = h^2 + a^2$$

Do the math



That's a lot of junk

A rearloader truck can hold up to three people. This truck weighs 34,220 pounds and can hold 20,000 pounds of yard debris and 16,000

pounds of junk. What is the total pounds of materials this truck can hold? If each person on the truck is equally responsible for the materials in the truck, how many pounds of materials is each person responsible for? Explain how you arrived at this answer.



Rearloader TRUCK

You will see this truck driving slowly through your neighborhood with one or two workers riding on the back. When they see yard waste or large items of trash, the workers hop off the back and load them into the rear of the vehicle.

The rearloader truck has two jobs:

1. Collect clean yard debris to recycle
2. Collect nonrecyclable trash that is too big to fit in your green garbage cart

Rearloader truck specifications: Rearloader truck features:

Technical Name: Manual rearload truck

Weight: 34,220 pounds

Color: Orange

Capacity:

- 20,000 pounds of yard debris
- 16,000 pounds of junk

- Compacting blade used to fit more stuff inside

- Can fit into smaller spaces than other types of trucks

- In the past, the rearloader was the only way the City of Largo picked up residential garbage

Think about it

Natural resources

Yard waste is a natural resource. Do you realize that our lives revolve around the natural resources

in our world? From a slice of toast and glass of orange juice to the books and notebooks you use in class, your daily life revolves around items made from natural resources. Many of the natural resources you use come from your own community, while others come from other states and nations. List five natural resources that you use on a daily basis and note whether they likely come from your local community or somewhere else. Share your information with your class.



Learning with the Times

Natural resources in the news

Now that you have identified natural resources that you use on a daily basis, look for an article, photo or image of a natural resource found in your community. Describe the resource and draw a picture of it. Now write a description to go along with your picture. Be sure to include where the resource is found and how it is used.

Extension activity: Using the articles in the *Tampa Bay Times*, write a brief news column about this resource. Be sure to describe why this resource is important to the people and economy of the community.

Claw TRUCK

Claw truck specifications:

Technical Name: Grapple or claw vehicle

Weight: 23,000 pounds (that is as much as 300 fifth-graders!)

Color: Orange (older trucks are white)

Claw truck features:

- 3,200 pounds can be lifted 20 feet in the air

- 7,100 pounds can be lifted 10 feet

Bet you can guess where this guy gets his name! The claw truck is so strong that it can lift a tree trunk or a refrigerator up to 20 feet in the air.

"The Claaaaaw" has two jobs:

1. Collect clean yard debris for recycling
2. Collect big bulky items for garbage (refrigerators, couches and other large items)

"The Claaaaaw"



Rules of green thumb



- Put branches, bagged leaves and grass by the curb on your recycling day.



- Be sure there is no trash mixed in with your grass clippings, leaves and branches.



- Never put yard debris in your blue recycling cart.



Thanks to the cooperation of these two trucks:

- More than 34 million pounds of yard waste has been kept out of the landfill.
- Reduced disposal fees for yard waste fees saved an average of \$15 per ton.
- More than \$283,000 in disposal fees has been saved.

* Data collected over the past three years.

$$s^2 = H^2 + a^2$$

Do the math



Trucks!

The City of Largo has many different trucks that have been described on the pages of this Newspaper in Education publication. Make a chart of all of the trucks. On your chart, list the name of the truck, a short description of what it does and how much it weighs without attachments. Once your chart is complete, you need to put the trucks in weight order from heaviest to lightest. Graph each truck's weight on a piece of graph paper.

Extension activity: Compare the heaviest truck to the lightest truck. What is the difference in weight? What is the ratio of difference between the heaviest and lightest truck? In terms of percent, how much heavier is the largest truck compared to the lightest?

Street SWEEPER



What is runoff?

Stormwater runoff is a messy soup of all of the chemicals, fertilizers, litter, pet poop and other debris on the streets. When rain falls on hard surfaces such as streets, parking lots and rooftops, it carries this “yucky soup” into nearby lakes, rivers and Tampa Bay, where fish and other sea creatures live, breathe and eat.

Stormwater is not cleaned or treated before it enters Tampa Bay. That’s why it’s so important to pick up pet poop and keep yard waste, chemicals and fertilizer out of our storm drains.



Protector of waterways

Street sweepers protect our waterways from litter, sand, animal debris and other items that wash from the streets to the storm drains and eventually into lakes, streams and Tampa Bay every time it rains. Debris that is not picked up can be ingested by fish and birds, harming and even killing them.

The street sweeper has powerful brooms that sweep up sand and litter, and a huge vacuum that sucks up debris into a collection bin, where it is stored until it can be safely disposed of.

Street sweeper specifications: Street sweeper features:

Technical Name: Mechanical air street sweeper

Weight: 19,600 pounds

Color: White with black brooms (sweepers)

- Swept 6,470 miles of roads last year
- Prevented 2,765 pounds of nitrogen and 1,773 pounds of phosphorus from entering waterways last year
- Collected 2,142 cubic yards of litter, sand and other debris last year



Nothing but rain down the storm drain – anything on the street will flow into our waterways when it rains.



Menzi

The Menzi acts like a spider, using wheels on its four “legs” to crawl around Largo’s ditches. It has attachments for its “arm” for mowing, digging and grabbing. These tools allow the Menzi to keep ditches clean to minimize litter entering waterways and increase water flow to prevent flooding.

Think about it

Being a good neighbor

The City of Largo is working hard to promote recycling and protecting the environment.

There are many public and private companies, as well as government agencies, that have taken positive actions to help preserve and protect the environment. You can research companies that are doing positive things for the environment in the *Tampa Bay Times* and on the Internet. Working with another student, using the *Times* and Internet as resources, find people and companies that are taking positive actions. Make a chart listing these people and companies. Include the positive actions they are taking. Share what you have discovered with your class.

Menzi specifications:

Technical Name: Menzi Muck

Weight: 24,000 pounds without attachments

Speed: Moves less than 5 miles per hour maximum

Menzi features:

- Climbs on land and in shallow water (up to 5 feet deep)
- Uses biodegradable hydraulic fluid to prevent water pollution
- Keeps waterways clean to minimize flooding



Learning with the *Times*

Planning for the future

Now that you have learned about other people helping the community, it is time for you to think about your future. We must begin recycling today if we are to reduce the rate at which our landfills are filling up. Look for articles in the *Tampa Bay Times* about recycling and the environment. Collect these articles over the course of a month. Working together with other students, come up with a plan to get your school and family to recycle. Use the articles you have collected as a basis for your plan. Read the editorials and opinion articles in the *Tampa Bay Times*. Think about the dynamics of these persuasive articles. Think about ways to draw people’s attention to a message. Now it is your turn to be persuasive. Create an advertisement for the *Times* to share your message for recycling. Share your advertisement with your classmates.

Extension activity: Write an editorial or opinion article focused on the importance of recycling in your community. You can even create a mini newspaper with all of your classmates’ articles.

Largo Fire Department is protecting people and their homes and businesses.

Last year, LFD:

- Fought 2,500 fires
- Responded to more than 20,000 medical calls
- Average response time for first unit on the scene: 4 minutes and 30 seconds.



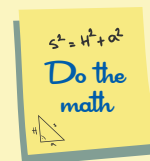
Fire safety

Last year, Largo had an estimated dollar loss from structure fires of more than \$1.7 million. Kitchen fires are the number one cause of fires in the City of Largo. Never leave something on a stove or burning (such as a candle) unattended.



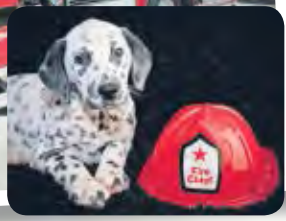
Sparky the Fire Dog wants you to follow these rules:

1. Create a home escape plan to get out of your house in case of fire. Choose an outside meeting place a safe distance from your home where everyone can meet after they've escaped.
2. Once you're out, stay out! Never go back into a building that is on fire.
3. Install smoke alarms in every sleeping room, outside each sleeping area and on every level of the home. Change the batteries twice per year.
4. Stop, drop and roll: If your clothes ever catch on fire, never run. Instead, stop where you are, drop to the ground, cover your face with your hands and roll repeatedly to smother the flames.



Pumping water

If a fire engine can carry up to 700 gallons of water and can pump 1,500 gallons of water per minute, how long will it take for the fire engine to use all of the water in its tank?



Sparky the Fire Dog

Fire ENGINE

The most common emergency response truck, the fire engine is a multipurpose response vehicle that is designed to transport firefighters quickly and safely to the scene and to carry the tools and equipment they need. Typically, three engines respond to a structure fire.

Fire engine specifications:

Technical Name: Pierce Velocity PUC

Weight: 47,000 pounds

Number of Wheels: 6



Fire engine features:

- Seats six firefighters inside the cab
- Carries 24-foot and 14-foot ladders as well as a 10-foot folding ladder
- Rear-vision camera so that the driver knows what's behind the truck
- Can pump 1,500 gallons of water per minute
- Carries up to 700 gallons of water, and can be connected to a fire hydrant for additional water supply



The science of fire

For a fire to occur, you must have heat, fuel and oxygen. Remove any one of these elements and the fire will not happen. According to Albert Einstein's law of conservation of energy, energy is neither created nor destroyed; it can only change in form. Fire is a visible, tangible side effect of matter changing form. Learn more about the science of fire on the How Stuff Works website at science.howstuffworks.com/environmental/earth/geophysics/fire.

What is a sanitary sewer?

A sanitary sewer carries sewage from houses and commercial buildings through underground pipes to treatment or disposal.

The big vacuum sucks out yucky stuff that could clog sewers (grease, food, sand, water and anything that you put down the drain from your home).



This jet hose shoots 2,500 gallons of reclaimed water at up to 80 gallons per minute into the sewer lines to clean them.

Vac TRUCK

The Vac truck helps clean and maintain sanitary sewer lines. Its jet hose shoots reclaimed water into sewer lines to clean them, while its powerful vacuum sucks out debris that could clog sewers.

Vac truck specifications:

Technical Name: Vactor 2100 Plus

Weight: 40,300 pounds



Vac truck features:

- 600 feet of sanitary sewer pipe can be cleaned at one time
- Keeps the sanitary sewer lines clean to prevent backups
- Cleaned 517,388 feet of pipe last year

Fight F.O.G.

F.O.G. – fats, oils and grease – should never be poured down your kitchen drain because they solidify and stick to the walls of the sewer pipes. This buildup can eventually clog the pipes and back up into your home. Yuck!



As a byproduct of cooking, F.O.G. are usually found in:

- Shortening
- Cooking oil
- Fats and oil from cooked meats
- Food scraps
- Dairy products
- Salad dressings and sauces

"An ounce of prevention is worth a pound of cure."

— Benjamin Franklin



Meet Piper

Piper is a water droplet from your home. Piper helps people keep sanitary sewer pipes clean by fighting F.O.G. — and you can, too!

Test your

$s^2 = h^2 + a^2$
Do the math

Hunting for angles

An angle is a shape, formed by two lines separating from a common point, known as a vertex. Roll-off

trucks can raise to a 50-degree angle, which allows the truck to lift a container weighing up to 75,000 pounds. Not all angles are used for lift, though; some are used for stabilization. Let's see how many angles you can find on the school playground or in the park. You will need a protractor, notebook, pencil and playground equipment.

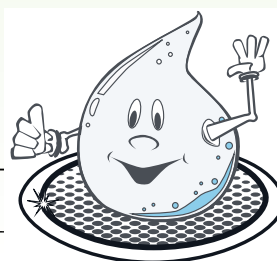
- At the playground or park, make a list of structures that have measurable angles.
- Without using your protractor, try to identify right angles, angles with less than 90 degrees and angles with more than 90 degrees.
- To measure a structure's angles, squarely face the angle you are measuring. In other words, stand directly in front of it and not off to the side.
- Hold the protractor at arm's length, close one eye, and try to fit one of the angles of your protractor into the angle of the structure. You may need to fold or unfold your protractor to find the best-fitting angle. If none of the angles of the protractor fit the angle you are measuring, come up with a reasonable estimate.
- After you have measured an angle, record it on your list.
- Try measuring the same angle from a different distance, making sure you're still squarely facing the angle you are measuring. What do you notice?
- Try to find examples of each angle that's labeled on your protractor.
- If you have time, sketch the structures and label the angles you've measured.
- Write down all of the measurements and discoveries you make in your notebook and share them with your class.



1. At what angle can the roll-off vehicle raise up?

- a. 50 degrees b. 75 degrees
c. 25 degrees d. 60 degrees

2. What does F.O.G. stand for?



3. Which of the following should NOT be included in your recycling cart?

- Plastic containers (butter tubs, fruit containers, cups, yogurt containers, etc.)
- Plastic trash bags
- Mixed paper (any paper item that tears)
- Styrofoam®
- Aluminum cans
- Aerosol cans
- Plastic toys
- Aluminum foil and trays
- Tin or steel food cans
- Glass bottles and jars (clear, green and brown)
- Food
- Flattened cardboard
- Milk and juice cartons and juice boxes



4. What happens to litter, pet poop and chemicals on the road?

- a. They wash down storm drains directly to waterways untreated
b. They pollute our land and waterways
c. They cause harm and even death to animals on the land and water
d. All of the above

Answers: 1. a. 50 degrees; 2. fats, oils, grease; 3. Plastic trash bags, Styrofoam®, plastic toys, food; 4. d. All of the above

Matching game

There are many vehicles in *LarGoing Green – on wheels*. All of these vehicles have different dimensions. Match the vehicle to its part.

- _____ **Garbage truck**
- _____ **Recycling truck**
- _____ **Roll-off truck**
- _____ **Frontload truck**
- _____ **Claw truck**
- _____ **Rearloader truck**
- _____ **Street sweeper**
- _____ **Vac truck**
- _____ **Fire engine**
- _____ **Ladder truck**

- a. 3,200 pounds can be lifted 20 feet in the air
- b. Climbs on land and in shallow water (up to 5 feet deep)
- c. Can rescue people or spray water farther than other engines can
- d. Carries up to 700 gallons of water
- e. Keeps the sanitary sewer lines clean to prevent backups
- f. Weighs 35,020 pounds
- g. Has an automated front loader
- h. Automated side loader for refuse
- i. Can fit into smaller spaces than other types of trucks
- j. Raises to 50-degree angle

knowledge

Crossword puzzle clues

Find the answers to this puzzle inside this supplement

Across

- 2. What type of arm empties recycling carts into the truck?
- 3. Paper that can do this, can be recycled.
- 6. Firefighters need to be transported to an emergency quickly and _____.
- 7. This is the most common emergency response truck.
- 10. LarGoing Green features programs that are _____ friendly.
- 12. Garbage includes these types of items.
- 15. What color are Largo's recycling trucks?

Down

- 1. This truck can hold up to three people.
- 4. What is the name of the Fire Dog mascot?
- 5. The frontload truck is used to pick up these items.
- 6. This type of material found in take-out containers is not recyclable.
- 7. Divide the number of trucks featured in this publication by two.
- 8. This shoots 2,500 gallons of reclaimed water at up to 200 gallons per minute.
- 9. How many times per week is green trash collected by Largo's garbage trucks?
- 11. This type of bag can be recycled at most grocery stores.
- 13. This truck is so strong that it can lift a refrigerator up to 20 feet in the air.
- 14. How many seconds does it take to tip one recycling cart?

Answers Across: 2. Mechanical, 3. Tear, 6. Safety, 7. Fire engine, 10. Earth, 12. Nonrecyclable, 15. Orange
Down: 1. Rear loader, 4. Sparky, 5. Dumpsters, 6. Styrofoam, 7. Five, 8. Jet hose, 9. Twice, 11. Plastic, 13. Claw, 14. Eight



Litter bugs

Littering harms land animals and sea life. Did you know that litter cleanup costs the United States almost \$11.5 billion each year? So why do people litter? With your classmates, make a list of all the ways people litter and brainstorm about the reasons. Next, list at least 10 items you think they might throw away. How would you clean up your yard? How would you stop drivers from littering again tomorrow?

Learning with the Times

Think globally, act locally

Use current and archived issues of the *Tampa Bay Times* to find articles, photos or cartoons about recycling and the environment in your local or regional community. Based on your news research, write an analysis essay that describes how the issue specifically impacts your community. Identify individuals or groups in your area that are helping to improve the community by protecting the environment. You can include related headlines, articles and photos in your paper. You may wish to complete further research using additional resources. Write a blog post about what you have learned. What are the most important needs in your community? What volunteer opportunities are available? How can people help keep Largo and Pinellas County beautiful? Share your research with your class.

Conserving energy

Look in the *Tampa Bay Times* for pictures of home appliances that use energy. For each appliance, answer the following questions. Is this a necessity or a luxury? What are the advantages and disadvantages to using it? What's the alternative to this appliance? Do a little research to determine the energy efficiency of each appliance. Rate the appliances from most efficient to least efficient. Using the digital edition archives, find newspaper articles about energy issues such as energy shortages, nonrenewable energy sources, energy costs, energy dependence and health problems associated with pollution or other effects of energy use. List ways you can save energy and create an energy contract to make a difference. Share your energy conservation ideas with your family and classmates.

Your wheels!

You've got your own wheels – two of them! Bicycle riding is fun, healthy and great for the earth. Safety is the most important part of being a bike rider.

The Largo Police Department reminds you to be safe while sharing the road with big trucks, cars and people:

- Wear a properly fitted bicycle helmet. Protect your brain; save your life.
- Check your equipment. Before riding, inflate the tires properly and check that your brakes work.
- See and be seen. Whether daytime, dawn, dusk, bad weather or night, you need to be seen by others.
- Wear neon, fluorescent or other bright colors when riding day or night.
- You and your bike should use reflective tape, markings or flashing lights.



- Control your bicycle. Always ride with at least one hand on the handlebars. Carry books and other items in a bicycle carrier or backpack.
- Watch for and avoid road hazards. Be on the lookout for hazards such as potholes, broken glass, gravel, puddles, leaves and animals. Tell fellow riders if you see these hazards.



Student artists needed for recycling ad contest

Largo asks everyone not to put their recycling in plastic trash or grocery bags (see page 5). Kids, grab a crayon or marker and design an advertisement that encourages people to leave their recyclables loose.

The winning ad and artist's name will be displayed on one of Largo's orange garbage trucks. Visit LargoRecyclesMore.com for more information and to download an entry form.

LarGoing green

JANUARY

Touch-a-Truck

Saturday, January 24, 11 a.m. – 4 p.m.
Largo Central Park, 101 Central Park Dr.

MARCH

Mobile Electronics & Chemical Collection Event

Saturday, March 14, 9 a.m. – 2 p.m.
Largo Home Depot, 10689 Ulmerton Rd.

APRIL

Spring Ecofest & Easter Egg Hunt

Saturday, April 4, 1 p.m. – 4 p.m.
McGough Nature Park, 11901 146th St N.

Playing Unplugged!

Saturday, April 18, 10 a.m. – 3 p.m.
Largo Central Park, 101 Central Park Dr.

Earth Day Paper Shredding & Recycling

Saturday, April 25, 9 a.m. – 12 p.m.
Recycling Center, 1551 Starkey Rd.

EVENTS

OCTOBER

Mobile Electronics & Chemical Collection Event

Saturday, October 3, 9 a.m. – 2 p.m.
Recycling Center, 1551 Starkey Rd.

Recycled Innovations Contest

Thursday, October 29 – deadline to enter
LargoRecycles.com

NOVEMBER

Recycled Innovations Contest

November 1 – 13
Vote for the Facebook Choice Winner
at facebook.com/LargoRecycles



America Recycles Day Paper Shredding & Recycling Event

Saturday, November 14, 9 a.m. – 12 p.m.
Recycling Center, 1551 Starkey Rd.

CONTACT US:

McGough Nature Park

727-518-3047
LargoNature.com

Largo Recycles

727-587-6760
LargoRecycles.com

Largo Events

727-587-6700
LargoEvents.com



Look for recycling containers at City of Largo events!