

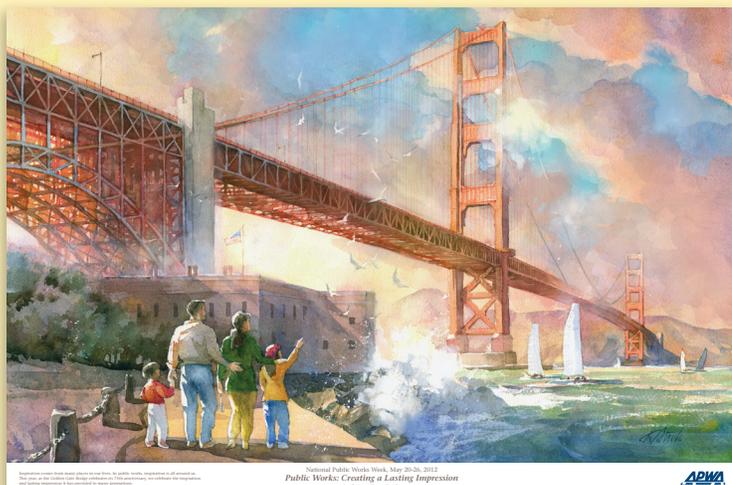
## CELEBRATING NATIONAL PUBLIC WORKS WEEK

Welcome to the third edition of *Paws Print* Newspaper. It's full of fun facts and awesome activities to help you learn about the world of public works!



### What Is National Public Works Week?

Are you ready for National Public Works Week? We are! In fact, we are so excited; we want you to celebrate with us. National Public Works Week (NPWW) began in 1960. It is celebrated the third full week of May, which this year is May 20–26, 2012, in cities all over North America! What is it that we celebrate? The men and women of public works, of course! NPWW is when we think of all of the great things that the people of public works do. Why do they do



them? To make your community a better place to live, work, and play. 🐾

### NPWW '12 Theme: Public Works: Creating a Lasting Impression

The 2012 National Public Works Week theme is "Public Works: Creating a Lasting Impression." Creating a lasting impression means that public works employees design, build and maintain things that we can use for a very long time. The work that public works employees do is all around us every day. In this newspaper you will see how public works employees create these lasting impressions that help improve your daily lives. 🐾

This year's National Public Works Week poster was created by Robert Gantt Steele. It reflects this year's NPWW's theme, "Public Works: Creating a Lasting Impression."



## Public Works Works for You!

You might ask “What is public works?” Public works is services provided to the public, used by the public, and usually paid for by their tax dollars.

Public works can be found all around you. It is transportation (how people travel), construction (how buildings are built), water and wastewater (how water is cleaned and goes through pipes) and more. All these services help make your community a better, safer place to live, work, and play.

You might have seen or used public works projects without knowing who did the work. Remember, it’s the employees of public works who work to create a lasting impression in your town!

Look at these pictures—are any of these services familiar to you?



## Crack The Code

Find the items below in the order that they are listed. Hidden on each item is a letter. Write the letter in the space below to form a word. Remember: you MUST find the items in numerical order (1, 2, 3) to spell the word correctly.

FIND:

1. Water fountain
2. Sand castle
3. Baby blanket
4. Public works employee cutting the bushes
5. Apple tree
6. Sun
7. Kite
8. Park bench
9. Swing
10. Baby stroller
11. Public works employee planting a bush
12. Steps on slide
13. Man walking his dog
14. Tree trunk



1      2      3      4      5      6      7      8      9      10      11      12      13      14

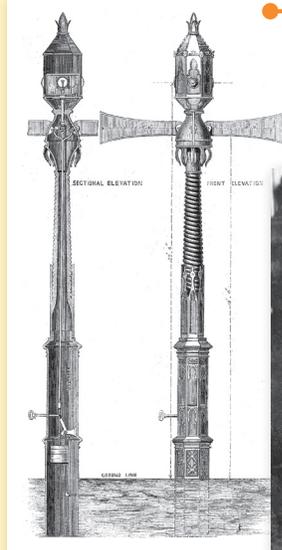
# History of Traffic Lights

Have you ever wondered how people traveled before cars? Well, they walked, rode on horses, buggies and wagons too. But there was still a need to control the traffic. So in 1868 a railway engineer named John Peake Knight invented the first traffic light. He was from London, England. This first traffic light was a gas-powered light with just two colors, red and green. Can you believe that for the light to change from green to red, it had to be done by hand? So, police stood by the first traffic lights, located at Great George Street and Bridge Street in London, and changed the lights by hand. One night a leaky gas main caused a light to explode in a policeman's face. He was badly injured. After this accident, the people were scared to keep using gas traffic lights. So, 44 years passed before traffic lights were used again!

By this time, there was more traffic, as people were driving cars! Now with cars on the road, there was more traffic and accidents. In 1912 a man named Lester Wire invented the first electric traffic light in Salt Lake City, Utah. His design was a wooden box with colored red and green dye that shined through the circle holes. The box was on a pole and the wires were connected to trolley and light wires. It too was operated by a policeman.

In the 1920s there were two more important traffic light inventors—William L. Potts and Garrett Morgan. In 1920, Mr. Potts, a police officer from Detroit, Michigan, invented the first four-way, three-color (red, amber and green) automatic traffic light. It cost him \$37 for the wire and electrical controls. It was placed on the corner of Woodward and Michigan Avenue. Within a year, there were 15 automatic traffic lights.

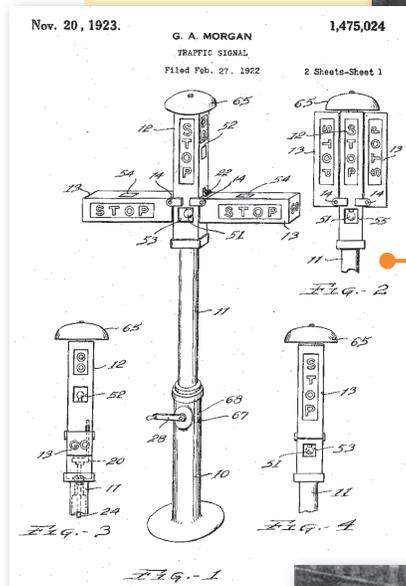
Garrett Morgan was an inventor who lived in Cleveland, Ohio. After seeing a bad crash, he set out to help make travelers safe in his city too. The traffic lights that William L. Potts invented were only used in his home town of Detroit, Michigan. So Garrett also invented an electric traffic light. He was the first to apply for and get a U.S. Patent for his invention on November 23, 1923. Eventually, he sold his invention to the General Electric Corporation for \$40,000.



The first known traffic light designed by John Peake Knight (London, England, 1868)



Lester Wire, inventor of the first electric traffic light (Salt Lake City, Utah)



The Morgan traffic signal was a T-shaped pole that had three positions: Stop, Go and an all-directional stop position. This "third position" stopped traffic in all directions to allow people to cross streets more safely.



In 1920, Detroit became the first city to use red, green, and yellow lights to control traffic.



Traffic light today

# The Somerset Street Gateway Arch—A Unique Partnership

The City of Ottawa, Canada, the City of Beijing, China, and the government of Canada worked together to build a traditional Chinese Gateway Archway in the city of Ottawa, Canada. It took them six months to build the archway. On October 7, 2010, the city held an opening ceremony to celebrate.

The Gateway Archway weighs about 135 tons and has 11 layers of paint! The Gateway Archway has nine golden roofs. It is a sign of wealth, good luck and health. There are five coins and five colored threads that have been set into the arch. By following these Chinese traditions, the people and land will have many blessings. At the base of the arch on each side are statues of lions. They are there to guard the entryway. One is a male and one is a female. The male has the world under his paw. This is because he guards the entryway of the arch. The female has a cub under her paw. This stands for the cycle of life.



This project between the City of Ottawa and the City of Beijing also celebrates the 40th anniversary of Canada and the People's Republic of China working together.



## Best Friend Vacation

Have you met P.W. Paws and his friend Chipper? P.W. Paws is the official mascot of the American Public Works Association. He spends most of his time talking to kids about public works. Chipper is his best friend. He likes to help too. But P.W. Paws and Chipper are not always working. They like to take vacations sometimes. One of their favorite places to visit is California.

California is a very large state and there are lots of things to see. The state has very pretty parks and interesting bridges too. Can you guess the name of P.W. Paws and Chipper's favorite bridge in California? Here are a few hints:

- A) It is located in San Francisco.
- B) It is "international orange." Pssst! P.W. Paws' favorite color is orange.
- C) About 9 million people visit it a year.



*If you guessed the Golden Gate Bridge, you are right!*



# It's Your World Too!

Look at the pictures below. Draw a line from the things we should NOT do to the things that we CAN do to help our public works employees. 🐾



## Unravel the Riddle

Solve the math problems. Match the answer to the letter, and enter that letter into the blanks below.

1.  $2 + 2 =$  \_\_\_\_\_
2.  $6 + 6 =$  \_\_\_\_\_
3.  $4 + 4 =$  \_\_\_\_\_
4.  $7 + 10 =$  \_\_\_\_\_
5.  $9 + 5 =$  \_\_\_\_\_
6.  $3 + 3 =$  \_\_\_\_\_
7.  $8 + 1 =$  \_\_\_\_\_
8.  $5 + 5 =$  \_\_\_\_\_

KEY	
14 =	F
4 =	L
17 =	D
10 =	L
8 =	N
12 =	A
6 =	I
9 =	L

Most of our trash is taken to a:

\_\_\_\_\_

1    2    3    4    5    6    7    8



# Solve The Mystery

Three public works employees live in houses next to each other. Each one helped to rebuild schools in Joplin, Missouri, after the tornado. Can you find out where each public works employee lives and what he or she did to help get the Joplin schools open?

Look at the picture and read the clues carefully.

- August lives in house 1 but she wasn't the one who helped to remove the rubble from the crumbling school.
- Eric fixed the traffic lights in front of the school.
- Aashi doesn't live in the house next door to August.
- One of the public works employees helped to rebuild the school by laying a new foundation.



	House 1	House 2	House 3
Name			
Job			

## First Public Works Project in the United States

Years ago many people came to the United States from other countries. Some would come to live and others came to trade goods. They all traveled by boat and the captains of the boats had a difficult time getting to shore safely. This was because the ocean waters were oftentimes rough. At times, the fog was so heavy it was hard to see. It was important to make sure that these travelers and new settlers arrived safely.

So, in 1792, Cape Henry was the first lighthouse built on the coast of Virginia Beach at Fort Story, Virginia. It was also the first public works project in the United States. It is 90 feet tall and looks out over the Atlantic Ocean. It was made in the shape of an octagon. John McComb, Jr., was the builder, and this was the first lighthouse he ever built. There was a fish oil lamp that hung from the top of the lighthouse. This lighthouse lamp was very bright and could be seen from miles away. The lighthouse had a "keeper" too. The keeper had to climb the stairs to the top each night and light the lamp.

On January 29, 1964, the first lighthouse became a National Historic Landmark. Visitors come from all around the world to see it.



*In 1870, the original lighthouse (on the right) began to crack, so a new lighthouse was built 350 feet away in 1881.*



# Public Works, First Responders

On May 22, 2011, a very big tornado hit the city of Joplin, Missouri. Right away 110 public works employees rushed out to help! There was a lot of debris everywhere. By the time the tornado passed through the city, 33% of it had been wiped out. Thousands of Joplin students lived in homes that were right in the pathway of the tornado. Many of those homes were totally lost. Ten schools were damaged or completely wrecked. And, 54% of the students in Joplin lost their schools too.

“The first thing public works employees had to do was clear a path for emergency vehicles,” said David Hertzberg, public works director in Joplin, Missouri. Mr. Hertzberg also said that debris needed to be taken away from homes, schools and other businesses too. Dump trucks were used to clear it all. Loaders were used to help with the search and rescue efforts. In fact, public works employees helped rescue 20 people. “We’ve undergone a major trauma,” said Dr. Elaina Edman, principal of Cecil Floyd Elementary School. “I’m exceedingly proud of the work that’s been done.”

The Traffic, Signs and Signals Department fixed the traffic lights. The Building Division went out to inspect the buildings to see if they were

*If you’re interested in helping rebuild Joplin schools, consider a donation to Operation Rising Eagle. Visit [www.rebuildjoplin.org](http://www.rebuildjoplin.org).*



still safe. They gave each building a score of red, green or yellow. Red meant that the building was hazardous and needed to be rebuilt. Green meant that it was safe but would need a few repairs. Yellow meant that it needed a lot more work and was not completely safe. Thankfully, over 94,000 volunteers came out to help. There was even a public works team that came all the way from Toronto, Canada to lend a hand. “Having relationships with other communities is important,” said Mr. Hertzberg.

When there is a natural disaster, public works employees often are the first to respond. They clear debris and move heavy things to make way for the traffic. They fix damaged buildings and rebuild too. All of these things that public works employees do, help improve the quality of life for all our communities.

## Train Your Brain!

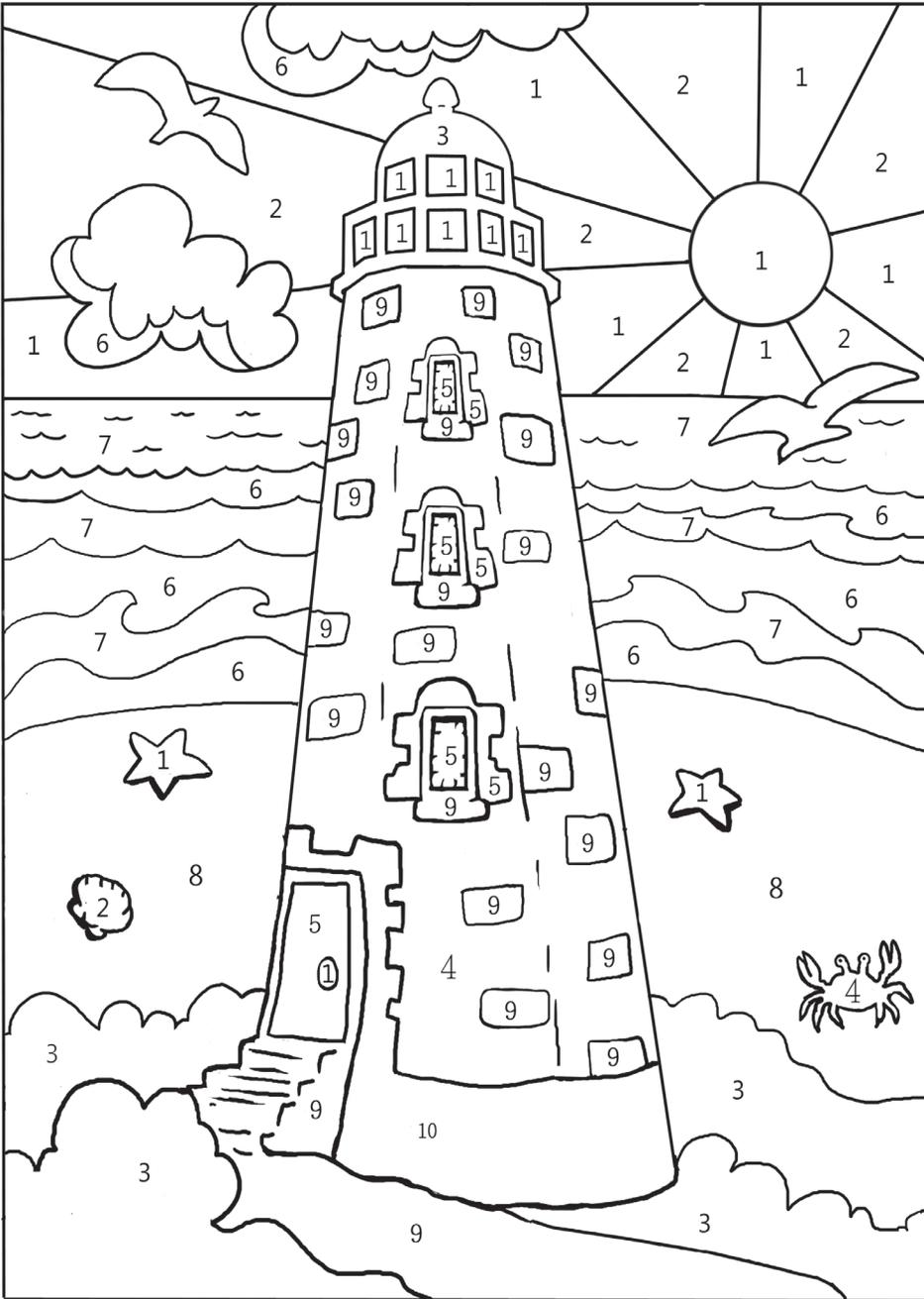
There are three brothers, Jalen, Ajay and Kabraun. Each one has a different chore for the week (recycling, shoveling snow and taking out the trash). From the clues can you match each brother with their name, age (11, 14, 16) and chore?

Name	Age	Chore



**CLUES:** Jalen is the older brother who takes out the trash but younger than the brother who shovels (who isn't Ajay).

# Color by Number



Color the picture using the numbers below.

- 1 = yellow
- 2 = orange
- 3 = green
- 4 = red
- 5 = brown
- 6 = blue
- 7 = light blue
- 8 = peach
- 9 = gray
- 10 = black



Ajay	11	Recycles
Kabran	16	Shovels
Talen	14	Takes out trash
Name	Age	Chore

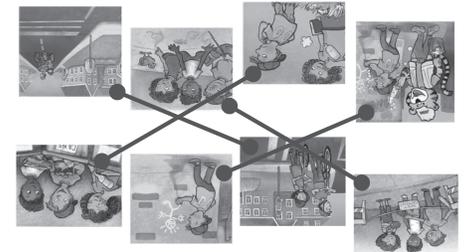
Train Your Brain!

Job	Lays	Traffic	Removes
Foundation	Lights	Rubble	
August	Eric	Aashi	
House 1	House 2	House 3	

Solve The Mystery

L A N D F I L L  
1 2 3 4 5 6 7 8

Unravel the Riddle



It's Your World Tool!

S U S T A I N A B L E I T Y  
1 2 3 4 5 6 7 8 9 10 11 12 13 14

Crack the Code

ANSWER KEY:

## PAWS PRINT

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