ST. LOUIS AMERICAN NEWSPAPER IN EDUCATION

The St. Louis American's award winning NIE program provides newspapers and resources to more than 7,000 teachers and students each week throughout the school year, at no charge.



CLASSROOM SPOTLIGHT

Buder Elementary School 4th grade teacher, Brittanie

Clement, shows students Jayla Law and Victor Berry how to research and design a water filtration system as a STEM lesson. Buder Elementary is in the St. Louis Public Schools District. Photo by Wiley Price/ St. Louis American

Teachers, if you are using the St. Louis American's NIE program and would like to nominate your class for a Classroom Spotlight, please email: nie@ stlamerican.com

SCIENCE CORNER

Most people love to spend time outdoors in the sun during the summer. In order to stay safe in the summer heat, remember these important rules from the Center for Disease Control and Prevention (CDC).

- > The temperature inside a parked car heats up very quickly. Never leave pets or children inside a parked car in the summer months, even if the windows are cracked open.
- > Wear loose, light-colored clothing (dark colors absorb the heat and raise your body temperature).

SCIENCE EXPERIMENT

In this experiment, you will build a thermometer and watch what happens to water levels as the temperature drops.

Materials Needed:



Staying Safe in the Heat

temperature.

temperatures are not as severe.

water. This will allow your body to

sweat and naturally decrease your

> Stay cool with baths and showers.

For information about staying

safe during the summer, visit:

http://www.pbs.org/parents/summer/

I can read nonfiction text for main idea

and supporting details. I can make text

summer-safety-tips-for-kids/.

Learning Standards:

to world connections.

> Stay hydrated with plenty of

- > Wear clothing
- that covers as much of your skin as possible to protect against the sun's UV rays.

> Choose sunscreen with a minimum of 15 SPF, with UVA and UVB protection. Remember water and sweat can wash away the sunscreen, so reapply sunscreen every hour.

- > Sunglasses are important to protect your eyes from damage.
- > Schedule outdoor activities in the morning and evening when the

BUILD A THERMOMETER

Mark off the water level in the straw so that you know where it was when you started.

4 Stick the bottle in the bowl of ice and watch what happens to the level of water in the straw. 5 Stick the bottle in a warm area (such as next to a sunny window) and watch what happens to the level of water in the straw.

SCIENCE STARS

African-American Inventions in the Summer

Super

Soaker



Do you enjoy water gun fights on a hot day? Did you know the super soaker, the high-powered water gun that has reached nearly \$1 billion in sales, was invented by Lonnie Johnson? Johnson began tinkering with

Lonnie Johnson

inventions as a young child and is now a nuclear engineer and former NASA scientist, where he worked in the Jet Propulsion Lab and helped design the Cassini robot probe that flew to Saturn. He holds more than 80 patents. He is board chairman of the Georgia Alliance for Children and a member of the 100 Black Men of Atlanta, and mentors high school and college students. He was inducted into the State of Alabama Engineering Hall of Fame in 2011.

Golf Tee



George Franklin Grant

enjoy having to pinch mounds of sand together to create a spot to hit the golf ball, especially after 18 holes. It created a mess and was tedious work. He invented the golf tee and patented it, but he never sold it to make money. He chose to give them to his friends. In 1991, the United States Golf Association gave him recognition for his invention.

Ice Cream Scoop



Golf is a sport enjoyed by people of all ages, especially in warm summer weather. Dr. George Franklin Grant received U.S. patent No. 638,920 for the golf tee on Dec. 12, 1899. Grant, a

ice cream treat? Before the ice cream scoop was invented, ice cream was very difficult to serve. It would stick to the spoon or ladle and it required both hands and usually two utensils to serve. Alfred L. Cralle was working in



- 16-ounce Plastic bottle Warm water
- Food coloring Clear plastic straw Clay
- Bowl of ice Marker

Procedure:

• Fill the bottle to the very top with warm water and color it with a few drops of food coloring.

2 Put 1/3 of the straw into the bottle. Use clay to seal the bottle closed so that the straw sticks straight up. When you do this, you'll see some water go up the straw.

MATH CONNECTION

1 If it is 86 degrees in St. Louis and 7

degrees warmer in Houston, what is the

2 If it is 73 degrees at 7 a.m. and the

temperature will it be at 1 p.m.?

DID YOU KNOW?

Ameren

temperature rises 2 degrees an hour, what

If the actual temperature is 87 degrees,

difference between those two temperatures?

temperature in Houston?

6 Analyze: Why does temperature affect water level?

Learning Standards: I can follow sequential directions to complete an experiment. I can draw conclusions and analyze results.

TEMPERATURE



50

-0 -5 -10 15

If it is 85 degrees in Chicago, 89 degrees in Memphis, 96 degrees in San Francisco, and 78 degrees in Portland, what is the average temperature? Arrange the temperatures from least to greatest ____ _ What is the difference between the highest and lowest temperatures?

Learning Standards:

I can add, subtract, multiply, and divide to solve a problem.



BOEING

The iron in France's Eiffel Tower expands, making the tower grow more than 6 inches with summer heat.

> In the United States, over 650 million longdistance summer trips are made.

> > CENTENE

Marc Antony named the month of July, in honor of Julius Caesar.

When it is summer in the Southern Hemisphere, it is winter in the Northern Hemisphere.

111 11 Alfred L. Cralle



Pittsburgh as a porter, which is an employee who carries luggage for people as they enter hotels, when he noticed the street vendors who sold ice cream struggling with this problem. Cralle invented the ice cream scoop to allow people to scoop ice cream with one hand, making the process quicker, easier, and neater. On February 2, 1897, Cralle was granted U.S. Patent #576395 for the ice cream scoop.

Learning Standards: I can read biographies of African Americans who have made contributions ST. LOUIS AMERICAN in the fields of science, technology, engineering, and math.

MAP CORNER

Enjoy these activities that help you get to know your St. Louis American newspaper.

Activity One —

Parts of Speech Headlines: Choose ten headlines from the newspaper. Identify the part of speech for each word in the headline. Try rewriting the headline with more adjectives. How does it impact the headline?



Activity Two — Creating an Index:

Create a newspaper index for The St. Louis American. Similar to a table of contents, an index tells the reader where to find various sections of the

newspaper. What sections are included in your newspaper? What types of information will you find in each section?

Learning Standards: I can use the newspaper to locate

information. I can identify parts of speech. I can use an index.



This special Newspaper In Education initiative is made possible, and delivered to classrooms, through The St. Louis American Foundation and its NIE Corporate Partners:



