

Issue 29, 2025

Next Week: Our states: California

Founded by Betty Debnam

Mini Fact:

Electricity flows

throughout the

system of wires

U.S. through a

and stations

power grid.

called the



Electricity makes our modern life possible. We use it to power our lights, heat, computers, music, elevators, refrigerators and thousands of other things.

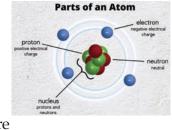
But most important, we would not exist without electricity. Electricity is necessary to make our brain, heart and other muscles work.

This week, The Mini Page learns more about electricity.

Electron power

Matter is made up of tiny atoms, and they are made up of even tinier particles: protons,

electrons and **neutrons**. Protons and electrons have an electrical charge. They each have the same amount of charge, no matter what material they're



in. Neutrons have no charge.

Protons have a positive charge, and electrons have a negative charge. There are always the same number of protons and electrons in a neutral atom, or one with no charge. They balance each other out.

Protons and neutrons stay close together in the center, or **nucleus**, of the atom. Electrons speed around the nucleus in a kind of cloud.

Sometimes electrons leave their atom to join another atom. These traveling electrons are moving electrical charges. They make up an electrical current.

Electrical current

Some atoms can lose or gain electrons more easily than others. For example, in metals such as copper, electrons are more likely to leave their atom and join another atom. The electrons move from atom to atom.

These moving electrons form an electrical current. They flow through a wire much like a current of water flows in a stream. The electrons in a current tend to move in the same direction.

Materials such as copper are good **conductors** of electricity because electrons can move easily between atoms. Atoms that do not easily lose or gain electrons can make materials known as insulators. For example, rubber is a good insulator. So are glass, plastic and dry wood.

Electricity around us

Have you ever gotten a shock after walking on the carpet? When you rub your feet on the rug, electrons flow from the carpet to your skin. You build up an electrical charge until you touch something that is a good conductor.

If you touch something metal, or your pet, or another person, an electrical current forms between you and what you're touching, and you get a shock.

A lightning bolt is a much bigger version of what happens when you drag your feet across the carpet.



Electric bodies

Our bodies need electricity to work. Just like everything else, our bodies are made of atoms. The electrons in those atoms create electricity.

Electrical signals make our muscles work by causing them to contract, or become tighter.



They tell our hearts when to beat. We can think because electrical signals flash from cell to cell in our brains.

Electrical power

Electricity is a wonderful part of our lives. But remember: It is powerful. Be careful around electrical outlets or machines. Here are some safety tips:

 Don't put your fingers or anything else into an outlet or appliance, such as a toaster, even if it is turned off.



- Keep electrical devices such as radios away from water (a good conductor).
- Don't take apart an electrical appliance, even

if it is unplugged.

- Stay away from fences around electrical equipment.
 - Don't fly kites near power lines.

Resources

Mini Jokes

Evan: How did Ben Franklin

Esther: He was truly shocked!

Scientists have found that

For later:

on Facebook!

about electrical storms.

Teachers: Follow and

interact with The Mini Page



On the Web: • bit.ly/MPelectricity

At the library:

• "Electricity for Kids: Electric Power — Generation, Transmission and Storage" by Alex Rayn

feel when he discovered electricity?

more than 20% of the oceans have darkened

over the past 20 years, shrinking the sunlit

"photic zone," home of 90% of marine life.

data and modeling, is caused by increased sediment and organic material, and changing conditions that block light. In some areas,

The darkening, revealed through satellite

the photic zone has become up to 330 feet shallower, forcing marine organisms to

compete closer to the surface. The trend could disrupt ecosystems, affect fisheries

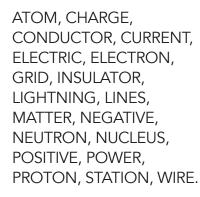
and weaken the ocean's role in regulating

Look in your newspaper for weather stories

Try 'n' Find

Words that remind us of electricity are hidden in this puzzle. Some words are hidden backward or diagonally, and some letters are used twice. See if you can find:

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SDERZNUCLEUSZ TILEERPOSITI Т DNEGAT HNQIPROTONW INTHGILXSENIL

Garden Pasta Salad

You'll need:

• 1 (12-ounce) box tricolor rotini pasta

Cook's Corner

- 1 cup halved cherry or grape tomatoes • 1 cup chopped cucumber
- 1 cup chopped bell pepper (any color)

6. not for the public (7)_

- 1 cup chopped carrots • 1/2 cup chopped black olives
- 3/4 cup mayonnaise • 1 tablespoon red wine
- vinegar
- 1 teaspoon salt • 1/4 teaspoon pepper
- 1 large garlic clove, minced or pressed

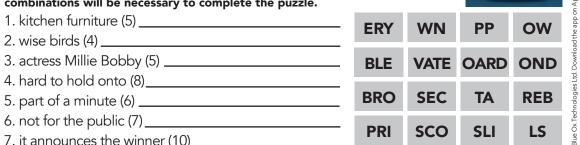
What to do:

- 1. Cook pasta according to directions; rinse with cold water.
- 2. Pour pasta into a large bowl. Add all chopped vegetables and olives to pasta.
- 3. In a smaller bowl, combine mayonnaise, vinegar, spices and garlic; mix well.
- 4. Stir mayonnaise mixture into pasta and vegetables; toss to coat.
- 5. Chill for one hour to combine flavors. Serves 4.

7. it announces the winner (10)

7 Little Words for Kids

Use the letters in the boxes to make a word with the same meaning as the clue. The numbers in parentheses represent the number of letters in the solution. Each letter combination can be used only once, but all letter combinations will be necessary to complete the puzzle. 1. kitchen furniture (5)



Answers: table, owls, Brown, slippery, second, private, scoreboard.

essential, habitual and enthralling puzzle!

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You'll need an adult's help with this recipe