

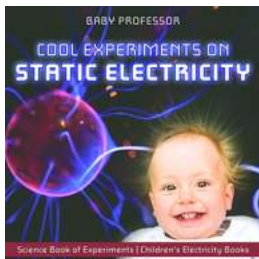
Cool Experiments on Static Electricity: The Science of Experiments for Children - Shocking Discoveries and Fun

Static electricity is a fascinating concept that children can easily relate to as they experience it in their daily lives. From the zap they feel when touching a metal doorknob to their hair standing on end after rubbing it with a balloon, static electricity is a phenomenon that captures their attention. In this article, we will explore several cool experiments involving static electricity that will not only educate children about the science behind it but also provide them with thrilling experiences. So, get ready for some shocking discoveries and fun as we dive into the world of static electricity experiments!

Experiment 1: Static Ball of Light

Materials needed: A large polystyrene ball, a dark room, and a woolen cloth

Procedure:



Cool Experiments on Static Electricity - Science Book of Experiments | Children's Electricity Books

by Baby Professor (Kindle Edition)

★★★★☆ 4.5 out of 5

Language	: English
File size	: 2942 KB
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Print length	: 64 pages
X-Ray for textbooks	: Enabled
Paperback	: 186 pages
Item Weight	: 2.16 pounds
Dimensions	: 6.14 x 1.31 x 9.21 inches
Hardcover	: 620 pages



1. Enter a dark room with the polystyrene ball and the woolen cloth.
2. Rub the woolen cloth against the ball vigorously for about a minute.
3. Slowly bring the ball close to your hair or a lamp.

Explanation:

When the ball is rubbed against the woolen cloth, electrons are transferred from the cloth to the ball, giving it a negative charge. When you bring the charged ball close to your hair or a lamp, the negative charge repels electrons in those objects, making them positively charged. This creates a buildup of electric potential, resulting in a flickering ball of light!

Experiment 2: Bending Water

Materials needed: A plastic comb, a faucet with running water, and a piece of dry tissue or cloth

Procedure:

1. Turn on the faucet to let a thin stream of water flow.
2. Rub the plastic comb against the dry tissue or cloth for around a minute.
3. Slowly bring the charged comb close to the stream of water without touching it.

Explanation:

When the comb is rubbed against the dry tissue or cloth, it becomes negatively charged. As the negatively charged comb approaches the stream of water, it attracts some positively charged water molecules. The water molecules, being polar, get rearranged due to the electric force and are pulled towards the negatively charged comb, causing the stream of water to bend.

Experiment 3: Static Cling

Materials needed: A balloon, a wall, and a piece of tissue or cloth

Procedure:

1. Rub the balloon against the piece of tissue or cloth for about a minute.
2. Stick the charged balloon to the wall.
3. Observe the balloon sticking without any other support.

Explanation:

Rubbing the balloon against the tissue or cloth transfers electrons from the cloth to the balloon, giving it a negative charge. The wall and other objects have positive charges, caused by the movement of electrons in the atoms. Opposite charges attract each other, causing the negatively charged balloon to stick to the positively charged wall or object due to the force of attraction between them.

Experiment 4: Dancing Cereal

Materials needed: A large clear bowl, some cereal such as Cheerios or Rice Krispies, and a plastic spoon

Procedure:

1. Pour the cereal into the clear bowl.
2. Run the plastic spoon through your hair for about a minute.
3. Hold the spoon near the cereal, without touching it.

Explanation:

When the plastic spoon is run through your hair, it becomes charged with static electricity. Cereals like Cheerios or Rice Krispies have a slight positive charge due to the drying and processing they undergo. As the charged spoon is brought close to the cereal, the opposite charges attract each other, causing the individual pieces of cereal to move or "dance" towards the spoon!

Experiment 5: Static Levitation

Materials needed: An inflated balloon, a small plastic container or cup, and a strip of aluminum foil

Procedure:

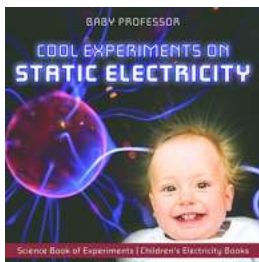
1. Place the aluminum foil strip on a flat surface.
2. Charge the balloon by rubbing it against your hair or a woolen cloth.
3. Hold the charged balloon above the aluminum foil strip.

Explanation:

When the balloon is charged by rubbing it against hair or a woolen cloth, it gains a negative charge. Bringing the charged balloon close to the neutral aluminum foil strip induces a positive charge on the side of the foil facing the balloon. The

positive and negative charges attract each other, creating a force that lifts the aluminum foil strip towards the balloon, resulting in static levitation.

Static electricity experiments not only provide children with a fun and interactive learning experience but also help them understand the science behind everyday occurrences. By conducting these experiments, children can observe firsthand the effects of static electricity and gain a deeper understanding of the principles involved. So, grab some materials and get ready to ignite your child's curiosity with these cool experiments on static electricity!



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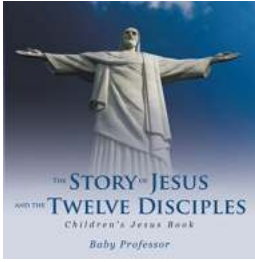
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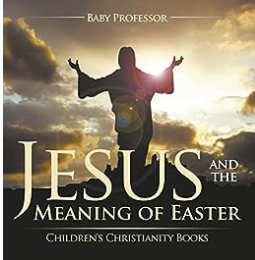


Would you like to learn with your kids? Then try to do these Cool Experiments on Static Electricity. Experiments allow your children the chance to learn first-hand. This means that there are senses involved, so lessons are retained. On top of that, you'll be having so much fun! Grab a copy today!



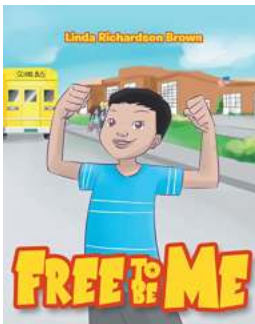
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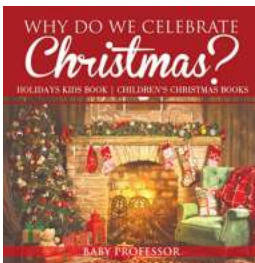
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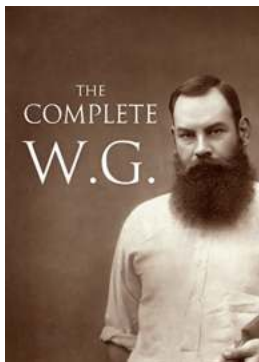
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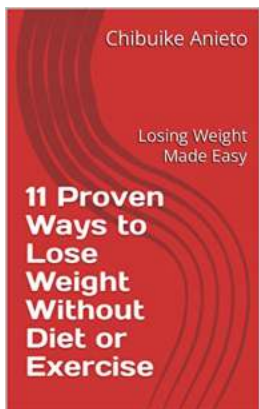
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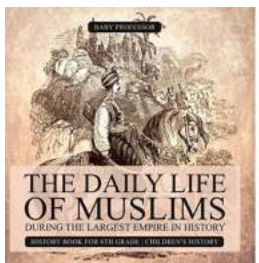
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