

# DEAR PARENTS,

Kids love figuring out how things work. So why not power your child's brain this summer with easy (and fun!) ways to learn about science? Your child's natural curiosity will bloom and you'll spend some quality time together.

Check out some book picks below and turn the page for two great science experiments you can do at home. Have fun!

## SUMMER READING LIST

Get fresh ideas by exploring these recommended books:



**20 Questions #1: Why Do Feet Smell?**  
by Gilda Berger, Melvin Berger

This funny and fascinating book explains all the weird little things the human body does—from sneezing to yawning to burping.



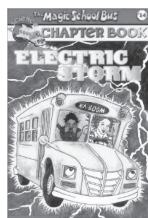
**My Five Senses** by Alik

Aliki's delightful art and simple text teaches children what the five senses are and how they experience the world.



**Scholastic Discover More: The Elements** by Dan Green

The Elements chronicles the history of the discovery of elements and the impact of their science on every aspect of our daily lives.



**The Magic School Bus Science Chapter Book #14: Electric Storm**  
by Anne Capeci

Ms. Frizzle takes the kids on an electrifying adventure into an electric storm!



# POWER UP&READ

Energizer® is powering the 2015 Scholastic Summer Reading Challenge,

which encourages kids to read books, earn rewards, and unlock original stories by favorite authors! Visit [scholastic.com/summer](http://scholastic.com/summer) for details.

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NO PURCHASE NECESSARY. A PURCHASE WILL NOT INCREASE YOUR CHANCE OF WINNING. INTERNET ACCESS REQUIRED TO CLAIM PRIZES. Void where prohibited. Must be at least 18 years old (19 in AL or NE; 21 in MS) and a legal resident of the 50 U.S. or D.C. Game begins on 5/4/15 and ends 10/31/15, or when Game Pieces are depleted, whichever occurs first. Purchase specially marked packages of Energizer® Brand batteries to obtain a Game Piece. Or, to obtain a free Game Piece by mail while supplies last, send a self-addressed, stamped envelope postmarked by 10/31/15 to: Power the Possibilities IWG, P.O. Box 3005, Rogers, MN 55374-3005 (VT residents may omit return postage). Must be received by 11/7/15. One request per envelope. GRAND PRIZE (1): ARV \$4,108; odds of winning: 1:1,667,829. FIRST PRIZES (25): ARV: \$1,500/each; odds 1:66,714. SECOND PRIZES (40): ARV: \$525/each; odds 1:41,696. THIRD PRIZES (50): ARV: \$250/each; odds 1:33,357. FOURTH PRIZES (150): ARV: \$100/each; odds 1:11,119. FIFTH PRIZES (175): ARV: \$86.75/each; odds 1:9,531. SIXTH PRIZES (200): ARV: \$75/each; odds 1:8,340. SEVENTH PRIZES (500): ARV: \$20/each; odds 1:3,336. EIGHTH PRIZES (3,000): ARV: \$10/each; odds 1:556. NINTH PRIZES (4,200): ARV: \$7.99/each; odds 1:398. ARV OF ALL PRIZES: \$193,847.25. For complete prize descriptions and other details, see full Official Rules at [energizer.com/win](http://energizer.com/win). Sponsor: Energizer Battery, Inc., St. Louis, MO 63141

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# SUMMER SCIENCE ACTIVITIES YOU CAN DO AT HOME

## THE COLORFUL MILK DISH EXPERIMENT

Some unusual things happen when you mix together a little milk, food coloring, and a drop of dish detergent. Let's see what happens!

### MATERIALS:

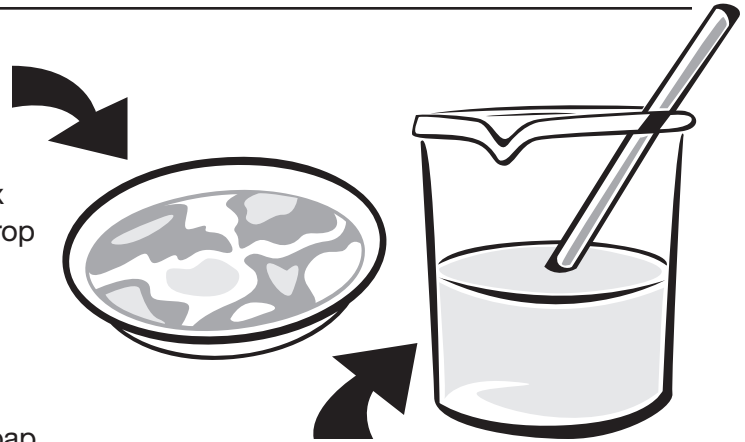
Shallow bowl, milk, cotton swabs, food coloring (four different colors), liquid dish soap

### WHAT TO DO:

1. Pour milk in the bowl until it covers the bottom.
2. Add one drop of each of the four colors of food coloring. Keep the drops close together in the center of the plate of milk.
3. Find a clean cotton swab and dip it into the middle of the bowl. Did anything happen?
4. Now place a drop of liquid dish soap on a different cotton swab. Place the soapy end of the cotton swab in the middle of the milk and hold it there for 10 to 15 seconds. What happened now?
5. Add another drop of soap to the tip of the cotton swab. Experiment with placing the cotton swab at different places in the milk.

### HOW IT WORKS:

Milk has a lot of different elements to it, including fat. Fat is all connected with bonds, which are tiny molecules that link together. The reason we use soap on dirty dishes is because it breaks the bonds in fats, allowing them to separate. When you add dish soap to milk, the bonds separate all at once!



## DISAPPEARING GLASS

Learn how to make glass disappear! It's not magic. It's science.

### MATERIALS:

Beaker, Pyrex stirring rod, vegetable oil, eyedropper

### WHAT TO DO:

1. Fill the beaker halfway with vegetable oil.
2. Immerse the Pyrex stirring rod into the oil. Does it appear different? Does it appear at all?
3. Immerse the eyedropper in the beaker and suck up some of the oil. Notice a difference?

### HOW IT WORKS:

Did you know that light actually bends when it hits an object? Every object makes light bend differently. This is called the index of refraction, and every object has a different one. But oil and glass have the same index of refraction. So when light hits the Pyrex rod in the beaker of oil it doesn't bend and we can't see it!