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**SCIENCE
BUDDIES**



**STUDENT
EDITION**

August 2010

Get Involved! Volunteer Online with Science Buddies!

Student volunteers earn community service hours and are eligible for scholarship awards.

We're looking for **top U.S. high school students** to volunteer as mentors on our **Ask an Expert forums** and help answer student questions about science projects. We'll work with you to set up a once-a-week schedule that fits your busy life. You'll earn **community service credit**, as well as be in the running for end-of-the-year **cash scholarships** for outstanding mentors. If you've got **30 minutes a week**, you can help share your love of science -- and your expertise! [Find out more and apply today!](#)
(Note: U.S. students only. Previous science fair experience required.)



Crime Scene Biotechnology

Is it blood or not?



A spot of red at the scene of a crime might be an important clue, unless it's really just a splatter of ketchup or some other red-colored substance! In [Crime Scene Chemistry: The Kastle-Meyer Test for Blood](#), learn how to perform the common Kastle-Meyer test and what kinds of substances might register a false positive. (Difficulty: 6)

Science Buddies' [biotechnology project ideas](#) are sponsored by Bio-Rad

Go Random!



Click the button above to see **one of the most popular** Science Buddies project ideas. *Click again to see another!*



[Random "cool" project idea](#)



[Random "new" project idea](#)

Help from Science Buddies Ask an Expert Led to Intel-ISEF Success



Science Buddies volunteers help students in all grades.

Christina Wang will be a senior this fall at the Shanghai American School in Shanghai, China. At [Ask an Expert](#), Christina got support from our team of volunteer Experts and developed an inspiring mentoring relationship with a long-time volunteer from

Share Your Science Success!

Did you use a Science Buddies project idea or Science Buddies resources for a successful project?



Did you place at your school fair? Get a good grade? Did you impress your friends? Or did you do an amazing science project over the summer? We want to know about it! We get excited when you succeed, so [let us hear from you](#). We might feature your success story on our website!

Bio-Rad. With the help of Ask an Expert, Christina was able to pursue an **advanced microbiology science project** analyzing the growth of facultative anaerobe *B. subtilis* under microaerophilic conditions. Expert advice on biotechnology lab procedures was particularly helpful.

Christina went to the Intel ISEF her sophomore year and, extending her research during her junior year with a project focusing on the attributes of four bacteria, she earned a **2nd-place Grand Award** at the 2010 Intel International Science and Engineering Fair! [Read Christina's story.](#)

Curious About Advanced Competition?



The Science Buddies [Advanced Project Guide](#) is loaded with information that can help you design and execute a top-caliber science project. If you haven't been to top competition and are curious about projects at this level, you can get an inside look on the [Sample Projects from Advanced Competitions](#) page. It's inspiring to see what these students did! What will *you* do?

Congratulations to 2010 Intel ISEF Special Award Winners!

Science Buddies was excited to join Symantec in presenting special awards in Computer Science at the 2010 Intel ISEF. See the [list of winners and their projects](#) on the blog.

Science Camp 101: Coming Soon to ScienceBuddies

Summer science camps are fun and educational!

Thanks to generous funding from the Motorola Foundation, Science Buddies will be creating information that will help you select and locate summer science camps. Throughout the year, we will profile U.S. science camps, as well as high-achieving students who have attended them.

If you attended a great summer science camp, email us at scibuddy@sciencebuddies.org and share your story!

Student Video Contest

Science Buddies Quick Clicks

- [Science Project Directory](#)
- [Topic Selection Wizard](#)
- [Project Guide](#)
- [Scientific Method](#)
- [Ask an Expert Forums](#)



Trash to Treasure Competition

PBS' Design Squad is offering kids at home a chance to get in on the action!

The 2010 Trash to Treasure Competition challenges kids to take everyday discarded or recycled materials and re-engineer them into functional products. Three grand-prize winners will win a trip to Boston to see their designs built, and will also appear on the Design Squad TV show and website. 25 finalists will also be featured on the series website. Enter at pbs.org/designsquad until September 5, 2010.

Newly Released Science Project Ideas



The following Project Ideas were recently added to the Science Buddies library:

Difficulty: 1-5

- [Point, Click, Shoot! Photography with a Pinhole Camera](#)
- [Archimedes Squeeze: At What Diameter Does an Aluminum Boat Sink?](#)
- [Choice Cheesecakes: Which Baking Method is the Best?](#)
- [Perfect Plating: Which Food Presentation Technique is Best?](#)

The deadline for students entering the Kavli Foundation "Why is Science Cool?" video contest has been extended to August 31, 2010. For more information, visit: <http://tinyurl.com/35hulzq>.



Difficulty:5-7

- [Investigate the 'Death' of an Orange](#)

Difficulty:7-9

- [Build Your Own Radon Detector](#)
- [Taming the Tsunami: Investigating Different Structures to Reduce Tsunami Damage](#)

Looking for a Perfect Project for You?



Our [Topic Selection Wizard](#) can help guide you to a science project that fits your areas of interest *and* meets science fair requirements. Give it a try today!

Pssst... Spread the Word!

Do you have classmates and friends who might enjoy the Science Buddies newsletter? Use the "Forward email" button to clue them in to the great project ideas and resources at Science Buddies!



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