

CHEMICAL EDUCATIONAL FOUNDATION®



**How To Get Started**  
*Instructional Guide for Educators*

*Dedicated to a greater understanding of the science and value of chemistry*

# WHAT IS THE CHEMICAL EDUCATIONAL FOUNDATION<sup>®</sup>?

The Chemical Educational Foundation<sup>®</sup> (CEF) is a non-profit organization dedicated to *fostering a greater understanding of the science and value of chemistry.*

CEF works with members of the chemical industry to provide communities with programs and publications that *promote science education* and *increase awareness of the presence and benefits of chemistry in our everyday lives.*

# WHY PARTICIPATE IN THE CHALLENGE?

## *The You Be The Chemist! Challenge ...*

- Exposes students to the fascinating world of chemistry as it applies to their everyday lives, allowing them to gain a greater appreciation of how chemistry and chemicals will continue to shape their world
- Encourages students to seek answers about the world around them and solve problems independently

### *... and for educators ...*

*The Challenge provides science-enrichment materials for 5<sup>th</sup>-8<sup>th</sup> grade classes in a form that challenges students to develop critical thinking skills, understand and apply scientific inquiry, and prepare for the Challenge!*

# WHY IS SCIENCE ENRICHMENT THROUGH THE CHALLENGE IMPORTANT?

*According to the 2005 National Assessment of Educational Progress, 71% of 8<sup>th</sup> graders scored below “proficient” when tested in science.*

*The Challenge can help to improve the level of basic science knowledge and understanding among 5<sup>th</sup>-8<sup>th</sup> grade students!*

- Study guide material and competition questions comply with the **National Science Education Standards and more!**
- The **competitive and rewarding** dynamic of the event helps educators get kids excited about learning chemistry.
- The Challenge **encourages** parental participation in their child’s learning experience.

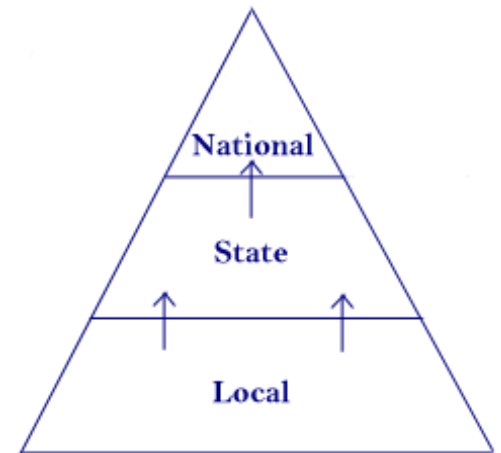
# PROGRAM PROGRESSION

The Challenge progresses through three levels: local, state, and national.

**Local Challenges** take place in communities across the country. The winning students from those competitions advance to a **State Challenge**, with state winners advancing to the **National Challenge** organized by CEF.

Local and state competitions take place throughout the year, and the cycle ends with the national competition in June.

The California State YBTC Challenge will be held April 26, 2014 at the Discovery Science Center!! The State winner will have an all expenses paid trip to Philadelphia in June for the National Challenge!!



# HOW TO GET STARTED

1. Visit the CEF website at [www.chemed.org/ybtc/challenge/](http://www.chemed.org/ybtc/challenge/) to learn more about the Challenge. The website has a portal for students!
2. Use the student section of the website to access all study guides and other materials.
3. Coast Southwest is here to help! Contact Jillian Cimo at [ybtc@coastsouthwest.com](mailto:ybtc@coastsouthwest.com) with any questions.

**Remember: Science Laboratory experiments are FUN!**

# STUDENTS

Posted on the website: The Challenge Study Guide: use it to advance your knowledge.

The California State Challenge 2014 will be hosted by Coast Southwest, Inc. in conjunction with the Discovery Science Center in Santa Ana.

The State Champion will enjoy an all-expenses paid trip (with a chaperone) to Philadelphia, PA in June to compete in the National challenge!

PRIZES!! CHEMC3000 chemistry sets, gift cards, trophies, T-shirts, SCHOLARSHIPS!

# CONTACT INFORMATION

***Jillian Cimo, California State You Be the Chemist!® Co- Organizer***

P.O. Box 6038 Fullerton, CA 92834

**[Ybtc@coastsouthwest.com](mailto:Ybtc@coastsouthwest.com)**

**[www.coastsouthwest.com](http://www.coastsouthwest.com)**

Chemical Educational Foundation  
1555 Wilson Boulevard  
Suite 700  
Arlington, VA 22209

Phone: 703/527-6223

E-mail: [challenge@chemed.org](mailto:challenge@chemed.org)

Website: [www.chemed.org](http://www.chemed.org)

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