



January 15, 2018



Dear East Bay/Contra Costa STEM Professional,

On Saturday, April 28, 2018 the City of Richmond's Community Services Department will host the **East Bay Contra Costa STEM Games (EBCCSG)**. Our goal is to expand science and math curriculum beyond the classroom, contribute to the technologically-literate workforce in the Bay Area and provide recognition for outstanding achievement by students from East Bay Contra Costa urban communities. *EBCC STEM Games* will bring 250+ *Richmond, El Cerrito, Emeryville, Berkeley, San Leandro, and Oakland* students, teachers, STEM experts, parents and volunteers together to experience the thrill of hands-on learning and science exploration. The competition, similar to a typical athletic event, captures the commitment, enthusiasm, and interest for STEM. Participants prepare and practice for specific events for months in advance in preparation for the competition. The top teams, from each age category will win prizes & trophies and hold the title as EBCC STEM Game Champions 2018.

**VOLUNTEER NOW as an EBCC STEM Games Event Supervisor. We NEED YOUR HELP, STEM Professionals!** This is a great opportunity to demonstrate your investment in STEM pathways for your students. The competition will include **24** events for *Middle (6-8)* and *High School (9-12)* participants and **8** events for *Elementary (3-5)* participants. We need a total of 32 event supervisors. It is our goal to provide the highest quality competition we possible. Event supervisors prepare their events in accordance with event rules and provide outstanding, challenging, and FUN events for EBCC STEM Games participants. Please see below for event supervisors list of responsibilities and a list of all events.

## EBCC STEM Games Event Supervisor Responsibilities

### Pre-event Preparation

1. Review official rules of event.
2. Develop a test based on official rules and at the grade level indicated (Elementary, Middle, High School).
3. Obtain all materials and equipment needed to administer the test.

*Note: Reimbursement for purchase of materials, with pre-approval.*

### At the Event

4. Impound required events: please be sure that you or an assistant are available at the event location and ready to impound devices during scheduled impound time.
5. Set up test prior to event time indicated (see event schedule for times and locations).
6. Administer test during the times indicated on the event schedule.
7. Score test. Report official scores.

**SIGN UP NOW!**

If you would like to share your time, interest, and LOVE for STEM education, please join us at the East Bay Contra Costa STEM Games. We look forward to speaking with you soon. If you would like more information or have questions, please contact [Kinchasa Taylor-kinchasa@genxecosolutions.com](mailto:Kinchasa Taylor-kinchasa@genxecosolutions.com) or [Kymberlyn Carson-Thrower-510-620-6789](tel:510-620-6789) [Kymberlyn\\_Carson-Thrower@ci.richmond.ca.us](mailto:Kymberlyn_Carson-Thrower@ci.richmond.ca.us)

# East Bay/Contra Costa STEM Games

*The World of Science Explored*

## MIDDLE AND HIGH SCHOOL EVENTS

### TECH & Engineering (8)

#### Rocket Bottle Style – (M, H)

*Design, construct and bring your 2 Bottle Rockets. Bottle rockets will be tested for longevity while in flight.*

#### Electric Vehicle – (H)

*Design, build and test one vehicle ran on electric energy. Vehicles will be tested based on speed and distance achieved.*

#### Simply Rube – (M, H)

*Design, build, test and a simple machine, inspired by UC Berkeley graduate, Rube Goldberg based on specific tasks.*

#### Scrambled Not Broken – (M)

*Design, build and test a mechanical device that utilizes the mass of the falling energy of the egg, along a track without breaking the egg.*

#### Helicopters – (H)

*Design, build, and test free flight helicopters to achieve maximum time in flight.*

**Power Breeze – (M, H)** *Design, build, and test a wind turbine.*

#### Air Matters – (M)

*Design, construct and test 1 monoplane to achieve maximum time in flight.*

#### Towers – (M, H)

*Design and build a structurally efficient Tower meeting specific requirement, to be tested*

### Life & Social Science (4)

#### Anatomy & Physiology – (M, H)

*Challenge based Team knowledge of anatomy, health concepts, and physiology of body systems.*

#### Fossils – (M, H)

*Teams use investigative skills in the scientific study of disease, injury, health and disability in populations.*

#### Imagine That – (M, H)

*Team members take turns drawing representations of a set of scientific terms/concepts while the other team member(s) guesses the term being drawn.*

#### Microbes Matter – (H)

*Teams will answer questions, solve problems, and analyze data pertaining to microbes.*

### Earth & Space Science (4)

#### CSI – (M, H)

*Teams identify perpetrators of a crime or crimes by analysis of unknown solids, liquids, and plastics found at the scene of a crime.*

#### Edible Science – (M)

*Teams study the science behind milk products and experiment with ingredients and physical parameters to produce and analyze these products.*

#### TICK TOCK – (M)

*Teams design and construct a non-electrical device measuring at various time intervals.*

#### Who Got Game – (H)

*Teams design and build an original computer game using the program Scratch.*

## ELEMENTARY SCHOOL EVENTS (8)

- CRIME BUSTERS
- PAPER ROCKETS
- DON'T BUG ME
- PENTATHLON
- WATER ROCKETS
- STRAW EGG DROP
- MYSTERY ARCHITECT
- 24 GAMES

Richmond Community Services – East Bay Contra Costa STEM Games  
"It Takes a Community To Educate a Child"

