

## Quotes from Former GEMS Participants

*"GEMS stimulates my mind!" - 7th grader*

*"Learning how to make radio speakers was cool!" - 6th grader*

*"The GEMS experiments are fun! We don't get to do stuff like this in school." - 8th grader*

*"Forensics was my favorite!" - 6th grader*

*"Because of GEMS, I want to study chemistry in college." - 8th grader*

*"I'm definitely coming back next year!" - 5th grader*



### For Additional Information Contact:

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Address:

USAARL, Science Information Center

ATTN: GEMS Program Coordinator

P.O. Box 620577

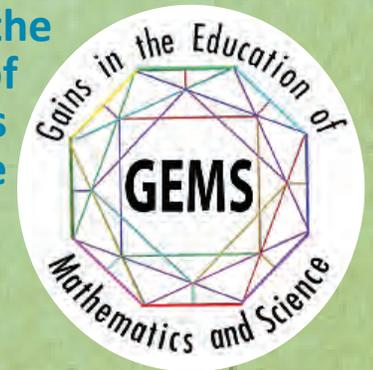
Fort Rucker, AL 36362



U.S. Army Aeromedical  
Research Laboratory

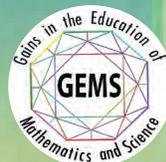
# GEMS

Gains in the  
Education of  
Mathematics  
and Science



### Other GEMS Locations

- AMRDEC – Huntsville, AL
- USAISR – San Antonio, TX
- USARIEM – Natick, MA
- USAMRIID – Fort Detrick, MD
- WRAIR – Silver Spring, MD
- USAMRICD – APG, MD
- USARL – APG, MD



*GEMS is a summer science, technology, engineering, and math educational program that enables participants to engage in fun, hands-on experiments.*



## Highlights

### Basic Eligibility Requirements

- Must be a U.S. Citizen
- Must be in 5th-8th grade during the 2012-2013 school year

### Goal

- To broaden students' interest in science, technology, engineering, and math, and to inspire students to consider careers in these fields.

### Length of Program

- The program meets Monday-Friday, 8:30AM-3:30PM.

### Curriculum

- The program is based on a multidisciplinary educational curriculum and is focused on age- and grade-appropriate, hands-on activities in areas such as physical science, engineering, robotics, math, biomedical sciences, chemistry, and biology.

### Leadership

- GEMS Program Coordinator
- Resource Teacher
- Near-Peer Mentors

### How to Apply

- USAARL will begin accepting applications at the beginning of 2013.
- For more information, visit [www.usaarl.army.mil/usaarl/pages/gemsprog.htm](http://www.usaarl.army.mil/usaarl/pages/gemsprog.htm)

## USAARL GEMS Programs

### 5th-6th graders Neuroscience GEMS

Students explore the five senses (hearing, sight, taste, smell, and touch) to help them learn more about the brain and neurological process.

### Physical Science & Forensics GEMS

Students investigate problem solving, estimation, water properties, engineering, physics/forces of motion, and forensics techniques.

### 7th-8th graders Biochemistry GEMS

Students conduct science and math experiments focused primarily on chemistry, biology, and biochemistry.

### Robotics GEMS

Students build and program a robot to maneuver and conquer different tasks, like following a line, performing a search and rescue mission, and dancing.



## 2013 Programs & Dates

### Physical Science & Forensics

June 10-14

June 17-21

June 24-28

### Robotics

July 15-19

July 22-26

