



## Math for Service

Incubating, mentoring, and sustaining student-run community service projects

### Greetings!

We'd like to acknowledge our sincere appreciation to Sanjeev Dalal and The Capital Group Companies Charitable Foundation for recent donation and the corporate matching gift to Math for Service. As a 501(C)3 nonprofit organization, Math for Service relies on donations to offer year-round free events such as STEAM in the Park, All Girls Math Tournament, Thanksgiving Math Tournament, Scratch and Python classes, Science Fun Night, etc.

Not only your generous contribution is tax deductible, it helps us to reach out to more students and continue to build the STEM community. Please click the button below to donate. You may also check with your employers if they offer corporate matching gift program. Thank you again for your thoughtful contribution.

[Donate Now!](#)

Sincerely,  
Math for Service Student Council



## Month at a Glance

Math for Service events occurring from 10/15/17 to 11/14/17



LEARN ABOUT:  
Volunteer opportunities!  
Entrepreneurship clubs!  
Business workshops!

OCTOBER 21ST | 5:00PM - 6:30PM  
ARDENT NORTHWOOD  
(820 ROOSEVELT, IRVINE, CA 92620)

**OC Launch: Open House**  
Time: 5:00 PM-6:30 PM  
Date: Saturday, 10/21/17  
Who: 6th-12th graders  
Location: Ardent Northwood  
(820 Roosevelt, Irvine, CA 92620)



**OC Arts: Senior Center Performances**  
Time: 4:00 PM-5:30 PM  
Date: Thursday, 10/26/17;  
Thursday, 11/30/17  
Who: General Public  
Location: Trabuco Center  
(5701 Trabuco Rd, Irvine, CA 92620)



**OC Math Circle: AMC 8**  
Time: 6:00 PM-7:25 PM  
Date: Tuesday, 11/14/17  
Who: Students in grade 8 or below  
Location: Irvine Chinese School (9 Truman, Irvine, CA 92620)



## October 2017 Newsletter

### 2017 Thanksgiving Math Tournament

Contributing Writer: Amy Zhong

Orange County Math Circle's 2017 Thanksgiving Tournament will be held on November 18th, 2017 from 12:30 PM-4:30 PM at Portola High School, Irvine, for 3rd-6th graders. It's a great way to gauge and spark your child's interest in math, and the tournament is a great opportunity for kids to meet and befriend others who have the same passion. The competition will consist of an individual, team, and activity round. Teams can be formed beforehand and consist of six students in the same grade. If participants don't have a team, they will be placed into one on the day of the Tournament.

Don't miss this opportunity to expose your child to competition mathematics in a fun environment and encourage their growth in mathematics with creative, challenging problems! To learn more, click [here](#).



## Upcoming Events

Learn about our upcoming events

### OC Science: Problems of the Week

Contributing Writers: Jeff Guo and Advait Arumugam

Join OC Science's Problems of the Week! This exciting online competition is open to elementary and middle school students. Every week, students will answer a set of questions that explores a specific topic in science and current discoveries. We highly encourage eligible students to join, to expand their science knowledge in a fun and competitive setting! The participants with the highest cumulative scores from our Problems of the Week will be invited to compete at OC Science's 3rd annual Science Bowl in April 2018. Please feel free to share this link with your friends!

Please note, the next set of problems will be released on Sunday, October 15, 2017! The answers will be due by 11:59 PM on Saturday, October 21, 2017. To learn more, click [here](#).

### OC Launch: Open House

Contributing Writer: Lucy Liu

Are you interested in business or entrepreneurship? OC Launch will host our 2017 Open House on October 21 from 5:00 PM to 6:30 PM at Ardent Northwood Campus. Students from grades 6 to 12 will be introduced to the variety of activities that OC Launch offers to promote early engagement in business techniques, startup opportunities, and presentation mentorship. If you are interested in knowing more about what OC Launch has to offer, please sign up [here](#).



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## OC Engineer: DIY Contest

Contributing Writer: Patrick Liu

OC Engineer is accepting submissions for its bi-monthly DIY Contest! Students in grades 4-8 are encouraged to participate. Document your steps as you create your project through pictures and the specific procedures. Feel free to record a video on your project - attach the Youtube link in the google form. Submissions will be evaluated on creativity, effort, and the usability of your tutorial/procedure. The next submission will be due by 11:59 PM, November 30th. Click [here](#) for example submission and [here](#) to submit your project.

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## OC Arts: Call for Volunteers

Contributing Writer: Michelle Kim

OC Arts is calling for voluntary performers aged 14+ (musicians, singers, magicians, etc) to perform at the Trabuco Center (5701 Trabuco Rd, Irvine, CA 92620) on Thursdays 10/26/17 and 11/30/17. If you are interested in sharing your talents, please contact OC Arts at [ocartsnow@gmail.com](mailto:ocartsnow@gmail.com) to sign up.



## OC Coder: 2017 Hour of Code

Contributing Writer: Matthew Tang

OC Coder will be hosting its fourth annual Hour of Code event for 3th-8th graders! Hour of Code is a global movement to introduce more students to computer science and is designed to demystify coding to show that anybody can learn the basics. Participants must bring their laptops to the event. No prior programming experience is required for students to attend.

There will be two sites for Hour of Code this year:

Sage Hill School, Friday, December 1: 5:30-6:30 PM or 7:00-8:00 PM

Ardent Northwood, Monday, December 4: 4:00-5:00 PM or 5:30-6:30 PM

To participate in this event, click [here](#).



OC Coder is looking for middle and high school students to volunteer at Hour of Code. Volunteers will be given class assignments a month in advance to familiarize themselves with the curriculum, so basic coding knowledge is required. Please fill out the form to volunteer [here](#). We will begin having planning meetings shortly, so stay tuned for email updates. If you have any questions, please email OC Coder at [orangecountycoder@gmail.com](mailto:orangecountycoder@gmail.com).

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## OC Math Circle: AMC 8

Contributing Writer: Michael Wu



The annual American Mathematics Competition for 8th grader students and under will be jointly hosted by OC Math Circle and OC Math Council on Tuesday, November 14th, 2017, at Irvine Chinese School (9 Truman, Irvine, CA 92620).

Due to the overwhelming response, all spaces have been filled. To be considered on the Waitlist, click [here](#). Spots are not guaranteed for those who are on the waitlist.



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## Monthly Recap

Read about the past yet exciting events of MfS

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## OC Math Circle Math Classes - The Start of a Season

Contributing Writer: Michael Wu

Volunteers enthusiastically teaching carefully thought lesson plans on Algebra. Participants smiling

after correctly answering a question. The start of a new partnership with a nationally recognized organization.

September and October mark the start of a historic 10th year of OCMC's math classes. The impacts we have made through last month's kickoff meetings have been built by a generation of dedicated volunteers and more importantly, a generation of curious young minds that participate in our classes.

[Read More](#)

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## OC Engineer Offers Arduino Classes

Contributing Writer: Divij Karnani

On Sunday, September 24rd, OC Engineer had their first Arduino Class which involved programming LEDs. The students had a lot of fun learning about how Arduino microcontrollers work. They then went on to create and program their own LED circuit using an Arduino. Along the way, they learned about how their circuit and code worked together to create their LED project. We look forward to our next class on Saturday, October 21st!

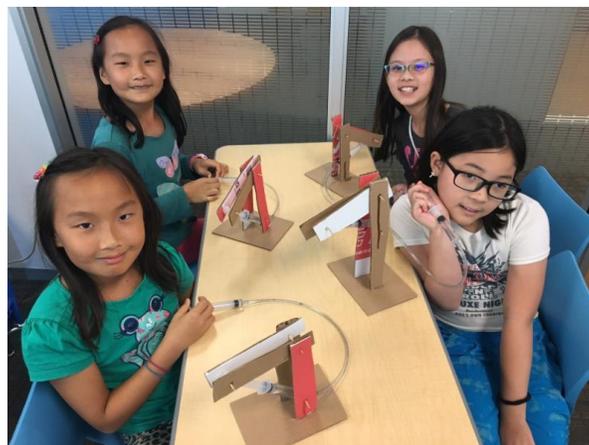


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## OC Engineer's September Workshop Was a Success

Contributing Writer: Patrick Liu

OC Engineer had their first Workshop on Saturday, September 23rd involving hydraulics and simple machines. Participants had a lot of fun learning about hydraulic systems and then designing and creating their own functioning cranes or grabber arms. Along the way, they learned about the engineering design process, creative thinking, and brainstorming as well as other basic engineering principles. OC Engineer will be releasing registration for the October Workshop in mid-October!

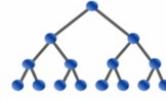


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## OC Hacker Offers Free USACO Training Sessions

Contributing Writer: Jason Yu

### USA Computing Olympiad



OC Hacker hosted its first free USA Computing Olympiad training session on September 30th, 2017 for students in grades 7-12. Participants new to the competitive scene were introduced to USACO and its scope of topics, as well as a brief summary of other competitive programming venues. Students learned about an algorithm used to determine if certain points on a grid are connected, Union Find, and solved practice questions showing their understanding of the algorithm, culminating in a competition showcasing their abilities.

[Sign up](#) for USACO's next training session on October 21st, from 12:00 PM to 2:00 PM at Ardent Northwood to prepare yourself for the upcoming USACO contests in December!

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## OC Science Hosts Its Third Annual Santiago STEM Night

Contributing Writers: Samiksha Komatireddy and Sherry Xu

OC Science volunteers were all smiles at the third annual Santiago Science and Engineering Family Night on Thursday, September 28, at the Santiago K-8 School. Excited to carry out the various experiments they had planned for the STEM event, they enthusiastically greeted students and their families as they entered the activity rooms.



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