SDHXCS Enrichment Classes (才艺课)

Subject (科目): Please select one of the categories	**__ Art __ Music __ Sports _X_ Math __ Chess**		
Course Name (课程名称):	**Math Enrichment Program – Level II**		
Teacher Name （教师姓名）	**Holly Jing, Ph.D.** **Catherine Sun**	**Phone**	858-357-3686 (Ms. Jing) 858-735-7289 (Ms. Sun)
		Email	hollyjing@gmail.com cccjbsun@gmail.com
Teacher's background and brief **(教师及其简介):**	Holly Jing has a BS degree in Physics and MS and PhD degrees in Biophysics. She has been teaching competitive math programs in elementary schools since 2014. She founded Math Club at Ocean Air Elementary school, where ~100 students from 4th, 5th, and 6th graders met weekly with parent volunteers who shared the teaching responsibilities. Her 6th grade team achieved excellent scores in Noetic, Math Olympiad (MOEMS), and MATHCOUNTS math Contests. In September 2016, she and Ms. Jenny Sun opened after-school math programs at ICL Academy, and their students have achieved outstanding scores on Noetic Fall Contest. Ms. Jing strives to inspire the interests of students through hands-on activities and interactive discussions. She will also be responsible for coordinating with Hua Xia, designing math program, organizing the placement test and open house, supervising teaching staff, and communicating with parents and students regularly. Catherine Sun is currently a senior at Westview high school and planning to study in math field in the college. She has an extended knowledge in the subject, having taken AP Calculus AB as a freshman and finished all high level math classes that the school offers. She recently took linear algebra with an UCSD extension class and was also a math teacher assistant at Westview. She is very experienced when it comes to working with children and education. She is currently a private math tutor and has been a tutor in other areas such as violin, piano, and English. She is currently a swimming instructor at the Rancho family YMCA, with multiple group lessons and private lessons. She is also an experienced coach for Middle School and High School Science Olympiad teams for many years. As a teacher, she hopes to inspire children to become more interested in mathematics and to excel in the subject through more focused training and repeated practice. She will be assisting Ms. Jing in this course.		

Course Description **(课程简述):**	Level-II is for 6th and 7th graders. The focus will be on basic algebra, geometry, probability, and number theory concepts, with problems from Noetic, MOEMS-M, and AMC 8. We will provide classroom instructions, practices, and homework assignments. Students will have opportunities to participate in Noetic Math Contest in April and prepare ahead for MOEMS (Nov-Mar), AMC 8 (Nov), and MathCounts (Feb) in the next school year. The topics of each week are listed below (subject to updates). 1. Problem Solving Strategies, part A (MOEMS-M problems) 2. Problem Solving Strategies, part B (MOEMS-M problems) 3. Solving One-Variable Equations (AMC 8 problems) 4. Solving Two-Variable Equations (AMC 8 and MathCounts problems) 5. Features of Triangles (AMC 8 and MathCounts problems) 6. Combinations of 2D Shapes (AMC 8 and MathCounts problems) 7. Divide and Conquer (AMC 8 and MathCounts problems) 8. Additional Counting Strategies (AMC 8 and MathCounts problems) 9. Basic Statistics (AMC 8 and MathCounts problems) 10. Basic Probability – I (MathCounts problems) 11. Basic Probability – II (MathCounts problems) 12. Basic Number Theory – I (MathCounts problems) 13. Basic Number Theory – II (MathCounts problems) 14. Review and Final Test			
Course Objectives **(课程目标):**	- Inspire interests in math learning - Master problem solving skills - Explore advanced math concepts - Achieve outstanding scores in math contests			
Pre-requisite/Student Ages **(先决要求/学生年龄要求):**	We will give higher priorities to 6th and 7th grade students who 1) Demonstrate collaborative and teamwork behaviors in class, 2) Follow instructions from teachers, and 3) Have supportive and collaborative parents.			
Student Evaluation / Presentation **(评分方法 (演出、比赛、展示等)):**	A placement test is required for accepting and grouping students. All students will participate in Noetic Contest in April 2017. Students will have a final test in May.			
Maximum Number of Students to be Enrolled (最多招生人数限制):	Up to 18 students per class.			
Course Fee (报名费 / 学费):	**Registration & material fee**	$375 per semester	**Special course fee**	Do not fill