San Diego Math Circle 2018-2019 Schedule

Color Key:	Yellow - Weekday Activity or Notes	Green - Regular Saturday Activity	Aqua - Special Event	Blue - Special Series	Saturday Afternoon Computer Science		Color Key:	Orange - Sunday Afternoon	
Group:	Fermat (5th - 6th)	Euler (7th - 8th)	Gauss (9th - 10th)	Cauchy (11th - 12th)	Ada (4th - 8th)	Turing (8th - 12th)	Group:	STEM Sunday	
Saturday Date	Check date for location.	Check date for location.	Check date for location.	Check date for location.	Appl. Physics & Math. Bldg. Room B402A (1:00-2:30pm)	Appl. Physics & Math. Bldg. Room 2402 (1:00-3:00pm)	Sunday Date	APM Room 2402, B402A and/or B412	
Sep-29	8:30AM Opening session in Warren Lecture Hall Room 2001 for all groups, including students, parents, and instructors. Students will be escorted to their first math classes in Pepper Canyon Hall; parents will remain for a parent meeting. Computer Science will be addressed in the opening session, but the first classes will be at their standard time of 1:00pm - 3:00pm in the afternoon.						Sep-30	no class	
Sep-29	Introduction to Graph Theory Irina Kufareva, UCSD Pepper Canyon Hall 122	Introduction to Counting and Probability Ananth Rao Pepper Canyon Hall 106	You expect to get it once Skip Garibaldi, CCR Pepper Canyon Hall 109 >bring a scientific calculator<	Quadratic Residues Tristan Shin Pepper Canyon Hall 121	Student Skill Pre-assessment, Overview of Learning Objectives - ACSL (American CS League) - RSI Interactive Python eBook	Student Skill Pre-assessment, Introduction to Competitive Programming (CP) - USACO.org	Sep-30	no class	
Oct-6	While student classes are in session, there will be a meeting for parents interested in volunteering with SDMC. This may include any of the "Service Portfolios" or "Incidental Opportunities" noted in your Student Profiles, or any other idea related to parent support. This meeting should not last very long, but breakout discussion can continue as long as useful. Pepper Canyon Hall 120				No Class SAT Test / Teacher in Service	No Class SAT Test / Teacher in Service	Oct-7	no class	SAT verified
Oct-6	Mathematical Logic Mihai Azimioara, Plexum, Inc. Pepper Canyon Hall 122	Liar's Bingo Sarah Trebat-Leder, AoPS Pepper Canyon Hall 106	Bridging Math and Art Wei Xu Pepper Canyon Hall 109	A Mathematical Journey from Classical to Quantum Mechanics Naga Bushan, Qualcomm Pepper Canyon Hall 121			Oct-7	no class	SAT verified
Oct-13	Liar's Bingo Sarah Trebat-Leder, AoPS Pepper Canyon Hall 122	Polynomials Ben Shimabukuro Pepper Canyon Hall 106	Olympiad Problems Zika Perovic, Mira Costa College Pepper Canyon Hall 109		What is Computational Thinking? Python (ch. 1-2)	Anatomy of Programming Contest Problems	Oct-14	Introduction to Chemistry Mihai Azimioara, Plexum, Inc.	PSAT verified
Oct-20	Math Mania! Carolyn Swayze Pepper Canyon Hall 122	Intro to Counting and Probability Sumith Nalabolu Pepper Canyon Hall 106	Voting Systems Deven Ware, AoPS Pepper Canyon Hall 109		Computer Number Systems-1 Base 2 Python (ch. 3-4)	Fundamentals of Data Structure and Algorithms	Oct-21	AMC 8 Workshop Sophie Wu, Ankit Bisain	
Oct-27	AMC 8 Preparation David Balmin APM 2402	No space available No Euler class today	No space available No Gauss class today	Generating Functions Mark Tiefenbruck, CCR APM B402A	Computer Number Systems-2 Base 2, 8, 16, Python (ch. 3-4)	Basic CP Problem Solving Paradigms	Oct-28	Introduction to Chemistry Mihai Azimioara, Plexum, Inc.	ACT verified
Nov-3	No Fermat Activity 6th graders join SDML I >>>	San Diego Math League I Middle School Division (B) Pepper Canyon Hall 106	San Diego Math League I High School Division (A) Pepper Canyon Hall 109		How to Make Computers Think and Work - Algorithms, Python (ch. 4)	Basic Mathematics in CP Problem Solving	Nov-4	Basic Electricity for Electronics Hema Sampath	SAT verified
Nov-10	Mathematical Origami Rachana Madhukara Center Hall 105	AMC 8 Preparation David Balmin Center Hall 109	Polynomial invariants, with digressions David Meyer, UCSD Math Center Hall 101	Linear Algebra Methods in Combinatorics Thang Pham, UCSD Math Center Hall 222	Computer Number Systems-3 Base 2, 8, 16 Arithmetics, Python (ch. 5)	String Processing Algorithms-1	Nov-11	Basic Electricity for Electronics Hema Sampath	Power Contest verified
Nov-10			Fall ARML Power Contest Takes 45min and will take place AFTER the usual Saturday morning activities in the AP&M. >>> No AfterMath! <<<						
Nov-13	AMC 8 The AMC 8 will be held on a TUESDAY evening on the UCSD campus. This is a sign-up event; see SDMC's event pages for details.								AMC 8 verified
Nov-17	Thanksgiving Break						Nov-18	no class	
Nov-24	World Mathematics Team Championship Varna, Bulgaria, Nov. 21-25 (plus travel) contact director@sdmathcircle.org						Nov-25	no class	Thanksgiving 11/28/2019
Dec-1	The Rationality of Irrationals Irina Kufareva, UCSD Pepper Canyon Hall 122	Intro to Counting and Probability Ananth Rao Pepper Canyon Hall 106	Puzzles and NP-completeness Palmer Mebane, AoPS Pepper Canyon Hall 109		Boolean Algebra-1, Python (ch. 5)	Arrays and Lists	Dec-2	CHMMC at Harvey Mudd / Basic Electricity for Electronics Hema Sampath	SAT verified / CHMMC verified
Dec-8	Mathematical Magic for Muggles Rachana Madhukara APM 2402	No space available No Euler class today	No space available No Gauss class today	Sum-product estimates with elementary proofs Thang Pham, UCSD Math APM B402A	ACSL Elem Contest #1, Boolean Algebra-2, Python (ch. 6)	ACSL Jr. Contest #1, Prep for USACO Contest #1 (practice & review)	Dec-9	Programming Using Arduino John Y. Lee	ACT verified
Dec-15	Po-Fest 2018 SDMC will host a visit from Po-Shen Loh, Professor of Mathematics at Carnegie Mellon University and Head Coach of the US IMO Team. The schedule of this day will be irregular, involving serial rather than parallel classes as Professor Loh will generously give of his time to meet with different groups at different times of the day.						Dec-16	F=ma Preparation Jacob Saret	
Dec-22	Winter Break						Dec-23	no class	
Dec-29	Winter Break						Dec-30	no class	
	Note that a number of information items possibly affecting the schedule in 2019 are unknown or uncertain at this time. We do our best to chart and work around known information, but changes are very possible.								
Jan-5	Winter Break						Jan-6	F=ma Preparation Jacob Saret APM 2402	
Jan-12	Combinatorics I Irina Kufareva Pepper Canyon Hall 122	Let's Play: The AMC 10 Christine Yang Pepper Canyon Hall 106	Problem-Solving Strategies for the AMC 12 David Balmin Pepper Canyon Hall 109		Pre/Post/Infix Notation-1, Functions-1, Python (ch. 6)	Prep for USACO Contest #2 ACSL #2 Prep: Pre/Post/Infix Notation (practice & review)	Jan-13	F=ma Preparation Jacob Saret, APM 2402 & Basic Electricity for Electronics CANCELLED	
Jan-19	Combinatorics II Irina Kufareva Pepper Canyon Hall 122	Intro to Counting and Probability Farnood Ensan Pepper Canyon Hall 106	Polynomial Roots Kevin Ren SDMC Alumnus, now @MIT Pepper Canyon Hall 109	Intro to Information Theory Robi Bhattacharjee SDMC Alumnus, now @UCSD Pepper Canyon Hall 121	Pre/Post/Infix Notation-2, Functions-2, Python (ch. 7)	ACSL #2: Bit String Flicker Geometric algorithms	Jan-20	F=ma Preparation Jacob Saret, APM 2402 & Programming Using Arduino John Y. Lee, APM B402A	
Jan-23	F=ma Exam Wednesday, January 23 and/or Friday, January 25 ONLY See the F=ma event page on the SDMC website for details.								F=ma verified
Jan-25									F=ma verified
Jan-26	No Fermat Activity 5th graders please stay home 6th graders join SDML II >>>	San Diego Math League II Middle School Division (B)	San Diego Math League II High School Division (A)		ACSL Elem Contest #2 Prep Python (ch. 7)	ACSL #2: Program Execution Flow Matrices	Jan-27	no class	
Feb-2	Wheels and Pinwheels, Stars and Ribbon David W. Brown Pepper Canyon Hall 122	MATHCOUNTS Jeopardy! Carolyn Swayze Pepper Canyon Hall 106 >bring smartphone or tablet<	Advanced Polynomial Techniques Kevin Ren SDMC Alumnus, now @MIT Pepper Canyon Hall 109		ACSL Elem Contest #2, Conditions-1, Python (ch. 7)	ACSL Jr. Contest #2, Functions	Feb-3	Basic Electricity for Electronics Hema Sampath cancelled	
Feb-7	AMC10A & AMC12A The AMC10A and AMC12A will be held on a THURSDAY evening on the UCSD campus. This is a sign-up event; see SDMC's event pages for details.								AMC 10/12 A verified
Feb-9	Ancient Number Systems David W. Brown Pepper Canyon Hall 122	no class due to Division B Science Olympiad	Happenstance or enemy action? Skip Garibaldi, CCR Pepper Canyon Hall 109		Loops & Iterations-1, Python (ch. 8)	Prep for USACO Contest #3 (practice & review)	Feb-10	Programming Using Arduino John Y. Lee	Division B Science Olympiad verified / ACT verified
Feb-13	AMC10B & AMC12 B The AMC10B and AMC 12B will be held on a WEDNESDAY evening on the UCSD campus. This is a sign-up event; see SDMC's event pages here for details.								AMC 10/12 B verified
Feb-16	no class						Feb-17	no class	
Feb-23	Polyhedra: Geometry's Gems David W. Brown Pepper Canyon Hall 122	No Euler Activity Due to San Diego Chapter MATHCOUNTS	Counting Primes Nathan Green UCSD Mathematics Pepper Canyon Hall 109		Loops & Iterations-2, Python (ch. 8)	Algorithm Optimization (Data Structure & Time)	Feb-24	no class	MATHCOUNTS verified
Mar-2	Taxicab Geometry Julia Garibaldi Pepper Canyon Hall 122	Conway Games Rachana Madhukara Pepper Canyon Hall 106	AIME Preparation Naoki Sato Art of Problem Solving Pepper Canyon Hall 109		ACSL Elem Contest #3, Recursive Function	ACSL Jr. Contest #3, Nested Conditions	Mar-3	no class	

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Group:	Fermat (5th - 6th)	Euler (7th - 8th)	Gauss (9th - 10th)	Cauchy (11th - 12th)	Ada (4th - 8th) Appl. Physics & Math. Bldg. Room B402A (1:00-2:30pm)	Turing (8th - 12th) Appl. Physics & Math. Bldg. Room 2402 (1:00-3:00pm)	Group:	STEM Sunday
Saturday Date	Check date for location.	Check date for location.	Check date for location.	Check date for location.			Sunday Date	APM Room 2402, B402A and/or B412
Mar-9	Wallpaper David W. Brown Pepper Canyon Hall 122	Intro to Counting and Probability Farnood Ensan Pepper Canyon Hall 106	Intro to the Probabalistic Method in Olympiad Problem Solving Robi Bhattacharjee, SDMC Alumnus, now @UCSD Pepper Canyon Hall 109 Winter ARML Power Contest to begin immedieatly following the morning math classes in APM B402A >>> No AfterMath! <<<		Graph Theory-1, Python (ch. 9)	Nested Loops	Mar-10	no class
Mar-13	AIME I The AIME I will be held on a WEDNESDAY evening on the UCSD campus. Qualifiers only; see SDMC's Event page here for details: http://www.sdmathcircle.org/index.php?page=aime							
Mar-16	Set Theory David W. Brown Applied Physics & Mathematics Bldg, Room 2402	Sequences and Series Benjamin Faktor Applied Physics & Mathematics Bldg, Room B402A	no class due to Division C Science Olympiad	no class due to Division C Science Olympiad	Graph Theory-2, Python (review & lab)	Prep for USACO Contest #4 (USOpen) (practice & review)	Mar-17	no class
Mar-21	AIME II The AIME II will be held on a THURSDAY evening on the UCSD campus. Qualifiers only; see SDMC's Event page here for details: http://www.sdmathcircle.org/index.php?page=aime-ii Math Kangaroo (grades 1 - 12) Math Kangaroo will be held on a THURSDAY evening on the UCSD campus. see SDMC's Event page here for details: https://sites.google.com/a/sdmathcircle.org/main/events/math-kangaroo							
Mar-23	Geometry Through the Looking Glass Aurora de Tagyos Pepper Canyon Hall 122	Proof Techniques Sumith Nalabolu & Eric Oh Pepper Canyon Hall 106	The Oracle of Numbers and the Problem of Abundance Paul Zeitz Univ. of SF, SF Math Circle, Proof School, ... Pepper Canyon Hall 109		no class (Teacher OOO)	no class (Teacher OOO)	Mar-24	no class
Mar-30	No instructional classes for any ability groups on this date.	San Diego Math Olympiad Middle School Division (B)	San Diego Math Olympiad High School Division (A)		ACSL Elem Contest #4, SDMC Ada Quiz Bowl (prizes and ceremony)	ACSL Jr. Contest #4, SDMC Turing Cup (prizes and ceremony)	Mar-31	no class
Apr-2	US Physics Olympiad Semifinal The USPhO Semifinal will be held in one session only, TUESDAY evening on the UCSD campus. https://sites.google.com/a/sdmathcircle.org/main/events/us-physics-olympiad-semi-final							
Apr-6	The SDMO is the concluding event of the regular SDMC season. SDMC activity continues in the form of some isolated events, as continue to be noted on this calendar and with the development of San Diego's ARML team.						Apr-7	AAPT PhysicsBowl https://sites.google.com/a/sdmathcircle.org/main/events/physicsbowl
Apr-13							Apr-14	
Apr-17	USA(J)MO Day 1 Wednesday, April 17 Applied Physics and Mathematics Building, Room 6402							
Apr-18	USA(J)MO Day 2 Thursday, April 18 Applied Physics and Mathematics Building, Room 6402							
Apr-20	UCSD Honors Math Contest						Apr-21	
Apr-27	ARML Team Practice						Apr-28	ARML Local
May-4	ARML Team Practice						May-5	
May-11	ARML Team Practice						May-12	
May-18	ARML Team Practice						May-19	
May-25	Memorial Day Weekend - No Activity (Memorial Day in 2019 is Monday, May 27)						May-26	
May-31 Jun-1	American Regions Math League Compeition (ARML) ARML is a two-day out-of-town event spanning both Friday and Saturday. ARML participation is by invitation only.							
Jun-1	ALL RETURNING STUDENTS FINALIZE THEIR SDMC MEMBERSHIP DOCUMENT UPDATES (Students should be updating incrementally all year.) The Liability Wiaver for the 2019-2020 season will be distributed at least by this date, and probably sooner.							
Jun-8							Jun-9	All-SDMC Year-End Picnic Sunday, June 9
Jun-30	RETURNING STUDENTS HAVE UNTIL JUNE 30 TO FINALIZE THEIR MEMBERSHIP DOCUMENT UPDATES AND SUBMIT AN ACCEPTIBLY CLEAR AND COMPLETE LIABILITY WIAVER FOR THE NEXT SDMC SEASON Any student out of compliance with this requirement will be dropped automatically and the released memberships made available to new students.							
Aug-1	NEW STUDENT REGISTRATION OPENS New applicants should go to the New Student Registration page of the SDMC website and follow the guidance given there. In particular, give careful attention to the presentation "How to Apply".							
Aug-31	NEW STUDENT REGISTRATION CLOSES							

Orange - Sunday Afternoon column (STEM Sunday) entries:

Date-aligned	STEM Sunday
Mar-10	Power Contest verified / SAT verified
Mar-13	AIME I verified
Mar-16	Division C Science Olympiad verified
Mar-21	AIME II verified / MK verified
Apr-2	USPhO verified
Apr-6	PhysicsBowl verified
Apr-13	ACT verified
Apr-17	USA(J)MO verified
Apr-18	USA(J)MO verified
Apr-20	UCSD Honors Contest not verified
Apr-27	ARML Local verified
May-4	SAT verified
May-18	Middle School Math Field Day not verified
May-25	Mem. Day 5/27/19 verified
May-31	ARML verified
Jun-1	SAT verified
Jun-8	ACT verified

Additional orange box: UCSD Transfer Admit Day not verified

ACT Calendar	www.actstudent.org/regist/dates.html
American Mathematics Competitions (AMC) Calendar	www.maa.org/math-competitions/about-amc/events-calendar
American Regions Math League (ARML)	www.arml.com/arml_development/page/index.php?page_type=public&page=home
AP Exam Calendar	apcentral.collegeboard.com/apc/public/exam/calendar/index.html
Caltech Harvey Mudd Math Competition	chmmc.caltech.edu/
Del Mar Union School District Calendar	www.dmusd.org/Page/2
Math Kangaroo	http://www.mathkangaroo.com/mk/default.html
Poway Unified School District Calendar	www.powayusd.com/calendars/
PhysicsBowl	http://www3.delta.edu/michaelfaleski/physicsbowl/
PSAT/NMSQT	http://www.collegeboard.com/student/testing/psat/reg/dates.html
San Diego Science Olympiad	https://sandiegoso.org/schedules.html
San Diego Unified School District Calendar	www.sandi.net/calendar
SAT Calendar	sat.collegeboard.org/register/sat-us-dates
UCSD Applied Physics & Mathematics Seminar Room Schedules	http://www.math.ucsd.edu/announcements/seminar-room-schedules/
UCSD Calendars	http://blink.ucsd.edu/instructors/resources/academic/calendars/
US Holidays	www.timeanddate.com/holidays/us/
US Holidays (federal)	www.usa.gov/citizens/holidays.shtml

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