

## 2017 Mathematical Olympiad Summer Program Schedule

Sun Jun 4	Mon Jun 5	Tue Jun 6	Wed Jun 7	Thu Jun 8	Fri Jun 9	Sat Jun 10
<i>(red W5403)</i> <i>(green W5421)</i> <i>(blue MMA14)</i> <i>(black W8220)</i> <i>(black G5222)</i>			<b>JM</b> Generat funct <b>MS</b> Num theory 1 <b>PL</b> Graph theory 1 <b>RG</b> Analysis <b>CL</b> Analysis	<b>EC</b> Linear algebra <b>RG</b> Isometry <b>SR</b> Inequalities <b>MS</b> Farey seqs <b>ML</b> Num theory 2	<b>PL</b> Graph theory 1 <b>RP</b> $\mathbb{Q}$ , vector spaces <b>EC</b> Linear algebra <b>ML</b> <b>SR</b> Inequalities	
<i>(problems)</i> <i>(problems)</i>			<b>MS</b> Num theory 1 <b>JM</b> Generat funct <b>RL</b> Power of point <b>PL</b> Combin sets <b>ML</b> Num theory 1	<b>RG</b> Isometry <b>KS</b> Linear algebra <b>RL</b> Spiral sim <b>EC</b> Linear algebra <b>GRAD</b>	<b>RP</b> $\mathbb{Q}$ , vector spaces <b>PL</b> Graph theory 1 <b>BI</b> Pell eqn <b>RL</b> Spiral sim <b>CL</b> Analysis	
<i>(afternoon)</i>		Arrival	<b>LC, JB</b> English+HW <b>CD, KS</b> English+HW <b>EC</b> English+HW <b>AA, NK</b> English+HW <b>YD, JL</b> English+HW	MOP Test 1	<b>ML</b> <b>SR</b> Combin optim <b>CL</b> Analysis <b>BI</b> Galois <b>RG</b> Analysis	Mock IMO 1
<i>(optional)</i>						

Sun Jun 11	Mon Jun 12	Tue Jun 13	Wed Jun 14	Thu Jun 15	Fri Jun 16	Sat Jun 17
	<b>RL</b> Angle chasing <b>CL</b> Algeb integers <b>PL</b> Graph theory 2 <b>RG</b> Комбинаторика <b>ML</b> Num theory 4	<b>BI</b> Pell eqn <b>MS</b> Num theory 2 <b>RG</b> Polynomials <b>CL</b> Analysis <b>SR</b> Cross ratio	<b>JM</b> Partitions <b>YS</b> Smooth fudge <b>RL</b> Cyclic quads <b>SR</b> Diophant eq <b>ML</b> Enumeration 2	<b>PL</b> Graph theory 2 <b>RG</b> Spiral sim <b>ML</b> Enumeration 2 <b>JB</b> Coding theory <b>MS</b> Random walks	<b>RP</b> $\mathbb{Q}$ , vector spaces <b>YS</b> Combin sums <b>CL</b> Seq/series <b>RG</b> Geom transform <b>RZ</b> 0 know proof	
	<b>CL</b> Algeb integers <b>RL</b> Angle chasing <b>ML</b> Enumeration 1 <b>PL</b> Extrem combin <b>MS</b> Good problems	<b>MS</b> Num theory 2 <b>BI</b> Pell eqn <b>RP</b> $\mathbb{Q}$ , vector spaces <b>EC</b> Weird Geo <b>NK</b> $\mathbb{C}$ geometry	<b>YS</b> Smooth fudge <b>JM</b> Partitions <b>SR</b> Cross ratio <b>MS</b> Good problems <b>RL</b> Cyclic quads	DE Shaw	<b>YS</b> Combin sums <b>RP</b> $\mathbb{Q}$ , vector spaces <b>RL</b> Roots of unity <b>PL</b> Graph theory <b>ML</b> Bezout	
	MOP Test 2	<b>SR</b> Inequalities <b>EC</b> Rigid combin <b>YS</b> $\mathbb{C}$ geometry <b>ML</b> Enumeration 1 <b>RG</b> Комбинаторика	MOP Test 3	Team contest 1	Philosophy	Mock IMO 2
		Team prep				<b>CL</b> Euler Apery

Sun Jun 18	Mon Jun 19	Tue Jun 20	Wed Jun 21	Thu Jun 22	Fri Jun 23	Sat Jun 24
	Kennywood	<b>TS</b> Invariants <b>ML</b> Functional eq <b>CL</b> Romanian gems <b>MS</b> Probability <b>BL</b> Algeb nums	<b>JM</b> D.I.E. <b>MS</b> Num theory 3 <b>YS</b> Trig in algebra <b>RL</b> Collinear/concur <b>TS</b> Invariants	<b>PL</b> Combin constr <b>RP</b> Prime geometry <b>MS</b> Random walks <b>TS</b> Grownup geo <b>BL</b> Dirichlet 1	<b>SR</b> Diophant eq <b>YS</b> Polynomials <b>TS</b> Invariants <b>RL</b> Pole and polar <b>BL</b> Dirichlet 2	
	Kennywood	<b>ML</b> Functional eq <b>TS</b> Invariants <b>SR</b> Combin optim <b>PL</b> Combin constr <b>YS</b> Steepest descent	<b>MS</b> Num theory 3 <b>JM</b> D.I.E. <b>PL</b> Combin constr <b>NK</b> Functional eq <b>YS</b> Orthogonal poly	<b>RP</b> Prime geometry <b>PL</b> Combin constr <b>YS</b> Weird ineq <b>ML</b> Finite fields <b>SR</b> Lift exponent	<b>YS</b> Polynomials <b>SR</b> Diophant eq <b>BI</b> Telescoping <b>PL</b> Designs <b>MS</b> Convex sets	
SIG	Kennywood	MOP Test 4	<b>RL</b> Angle chasing 2 <b>SR</b> Inequalities <b>BL</b> Spherical geo <b>ML</b> Young tableaux <b>CL</b> Romanian gems	MOP Test 5	Team contest 2	TSTST 1
			Team prep			

Sun Jun 25	Mon Jun 26	Tue Jun 27	Wed Jun 28	Thu Jun 29	Fri Jun 30	Sat Jul 1
	<b>TS</b> Induction <b>ML</b> Seq/series <b>CL</b> Geom ineq <b>RL</b> Count in 2 ways <b>BL</b> $p$ -adics	<b>RP</b> Min/max funct <b>SR</b> Combin philos <b>ML</b> Additive comb <b>TS</b> Inversion <b>CL</b> Geom ineq	<b>JM</b> Posets <b>BL</b> Spherical geo <b>YL</b> Strange combo <b>RL</b> Symmedians <b>CL</b> Analytic NT 1	<b>RL</b> Power of point <b>BI</b> Telescoping <b>SR</b> Combin philos <b>ML</b> Enumeration <b>CL</b> Analytic NT 2	<b>PL</b> Extrem combin <b>CL</b> Romanian gems <b>RP</b> Min/max funct <b>ML</b> Additive comb <b>BL</b> Algebraic NT	Departure
	<b>ML</b> Seq/series <b>TS</b> Induction <b>RL</b> Count in 2 ways <b>CL</b> Seq/series <b>SR</b> Great ideas	<b>SR</b> Combin philos <b>RP</b> Min/max funct <b>NE</b> Probab combin <b>PL</b> Probab combin <b>RL</b> Geometry	<b>BL</b> Spherical geo <b>JM</b> Posets <b>RL</b> Symmedians <b>SR</b> Combin optim <b>YL</b> Strange combo	<b>BI</b> Telescoping <b>RL</b> Power of point <b>BL</b> Factoring poly <b>PL</b> Combin geom <b>SR</b> Alg eqang poly	<b>CL</b> Romanian gems <b>PL</b> Extrem combin <b>SR</b> Diophant eq <b>NK</b> Diophant secant <b>YL</b> Discrete Fourier	Departure
Two Sigma	TSTST 2	<b>ML</b> Bijections <b>CL</b> Geom ineq <b>BL</b> Quadratic recipr <b>NE</b> Vandermonde <b>SR</b> Combin philos	MOP Test 6	Team contest 3	Beyond MOP	
		Noam Elkies			Closing	