Mathcamp 2020 Four-Week Schedule

Time	Week 1	Week 2	Week 3	Week 4
9 am	An inquiry-based approach to group theory 🌶🌶 (Katharine)	Combinatorics of tableaux 🌶🌶🌶 (Emily & Kayla)	Bairely complete 🌶🌶🌶 (Ben)	Prime $\mathbb{C}$ numbers 🌶🌶🌶 (Emily)
	Cut that out! 🌶🌶 (*Zach Abel*)	Graphs on surfaces 🌶🌶 (Marisa)	Congruences of Bernoulli numbers and zeta values 🌶🌶🌶🌶 (Eric)	Complexity theory 🌶🌶 → 🌶🌶🌶 (Linus)
	Determinantal formulas 🌶🌶 (Kayla)	Introduction to number theory 🌶🌶🌶 (Mark)	Geometric programming 🌶🌶 (Misha)	The John Conway hour (week 2 of 2) 🌶 → 🌶🌶🌶 (Mira & Misha)
	Introduction to graph theory 🌶🌶 (Misha)	Markov chains and random walks 🌶🌶🌶 (Misha)	Spectral graph theory 🌶🌶🌶 (Ania)	Kakeya 🌶🌶 (Alan)
	Teaching math to computers 🌶🌶🌶 (Apurva)	Oh the sequences you'll know 🌶 (*Zach Abel*)	Regular expressions and generating functions 🌶🌶 (Linus)	Uncertainty principle 🌶🌶🌶🌶 (Neeraja)
10 am	Cubic curves 🌶🌶🌶 (Mark)	Clopen for business: an inquiry-based approach to point-set topology 🌶🌶🌶 (Katharine)	Extremal set theory: intersecting families 🌶 (Neeraja)	Brooks' theorem blues 🌶🌶🌶 (Misha)
	Hyperplane arrangements 🌶 (Emily)	Conflict-free graph coloring 🌶🌶 (Pesto)	Fourier analysis 🌶🌶 (Alan)	How not to prove the Continuum Hypothesis (week 2 of 2) 🌶🌶🌶🌶 (Susan)
	Integration on manifolds 🌶🌶🌶🌶 (Neeraja)	Quantum mechanics 🌶🌶🌶 (*Andrew Guo*)	FUNdamental groups and friends: an introduction to topological invariants 🌶🌶🌶 (Katharine)	Representation theory of finite groups (week 2 of 2) 🌶🌶🌶🌶 (Mark)
	Introduction to linear algebra 🌶🌶 (Linus)	Ramanujan graphs, quaternions, and number theory 🌶🌶🌶🌶 (*Dan Gulotta*)	How not to prove the Continuum Hypothesis (week 1 of 2) 🌶🌶🌶🌶 (Susan)	So you like them triangles? 🌶🌶🌶 (Dennis)
	The bell curve 🌶🌶🌶 (Mira)	Weierstrass approximation 🌶🌶 (Neeraja) | Hilbert's space-filling curve 🌶🌶 (Ben)	Representation theory of finite groups (week 1 of 2) 🌶🌶🌶🌶 (Mark)	Solving equations with origami 🌶🌶 (Eric)
Noon	Don't worry, these cats don't bite! (Basic category theory) 🌶🌶 (Dennis)	A Rubik's cube-based approach to group theory 🌶🌶 (Alan & Dennis)	Classifying complex semisimple Lie algebras 🌶🌶🌶🌶 (Kayla)	Combinatorial game theory 🌶🌶 (Tim!)
	Fourier something something boolean functions 🌶🌶🌶 (Tim!)	Cantor, Fourier, and the first uncountable ordinal 🌶🌶🌶🌶 (Ben)	Geometry of lattices 🌶🌶🌶 (*J-Lo*)	Connections to category theory 🌶🌶🌶🌶 (Katharine)
	Introduction to analysis 🌶🌶 (Alan)	Introduction to ring theory 🌶🌶🌶 (Eric)	Grammatical group generation 🌶 (Eric) | Let's reverse-engineer photoshop 🌶 (*Olivia Walch*)	Extremal graph theory 🌶🌶🌶 (Mia)
	Majorizing-Comparisons Solving of Problems 🌶🌶🌶🌶 (Pesto)	Modeling computation 🌶🌶 (Mia)	Information theory 🌶🌶🌶 (Mira)	Fair squares (mod p) 🌶🌶 (Maya)
	Mathcamp crash course 🌶 (Susan)	Wallis and his product 🌶 → 🌶🌶🌶🌶 (*Jon Tannenhauser*) | The Plünnecke–Ruzsa inequality 🌶🌶🌶 (Milan)	The John Conway hour (week 1 of 2) 🌶 → 🌶🌶 (Pesto & Tim!)	Functions you can't integrate 🌶🌶🌶 (Ben)