COURSE OUTLINE

WELLS ACADEMY GRADES 7/8 CONTEST PREPERATION 2024

Course Description

This course will assist students in developing the tools to approach math contests. Students will be exposed to the main overview of contests and their subject matter. Classes will encourage students to think differently about math and include direct practice with questions from past contests.

Students will prepare for 3 main contests. The Euler (grade 7) and Lagrange (grade 8) contests from Mathematica, the Gauss (Grade 7/8) from the CEMC of the University of Waterloo, and the American Mathematics Competition (AMC) 8 from the Mathematical Association of America.

Weekly Schedule

Week	Topic
	Mathematica Contests: Euler and Lagrange (April 10th, 2024) + Gauss (May 15th, 2024) Prep
Jan. 8	Introduction and Contest Overview
Jan. 15	Number Theory
Jan. 22	Counting and Probability I
Jan. 29	Counting and Probability II
Feb. 5	Counting and Probability III
Feb. 12	Algebra
Feb. 19	Algebra II
Feb. 26	Geometry I
Mar. 4	Geometry II
Mar. 11	Data Analysis
Mar. 18	Patterning and Sequences
Mar. 25	Ratios and Rates
Apr. 1	Logic Problems
Apr. 8	Euler and Lagrange Contest Practice and Review
	Euler and Lagrange Contest Writing (April 10th, 2024)
Apr. 15	Gauss Contest Practice and Review I
Apr. 22	Gauss Contest Practice and Review II
May 6	Gauss Contest Practice and Review III
	Gauss Contest Writing (May 15th, 2024)
	AMC 8 (MAA) Prep (January 2024)
May 27	Introduction and Contest Overview
June 3	AMC Contest Practice I
June 10	AMC Contest Practice II
June 17	AMC Contest Practice III