



COURSE OUTLINE

WELLS ACADEMY GRADES 5/6 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 the BCC contest from the CEMC of the University of Waterloo as well as the Fibonacci (Grade 5) and Pythagoras (Grade 6) contests from Mathematica. This course also provides a good foundation for future contests such as the Gauss (Grade 7/8) from the CEMC of the University of Waterloo or any similar contests.

Weekly Schedule

Week	Topic
Fibonacci and Pythagoras (Mathematica) + Early Gauss Grade 7 (CEMC) Prep	
<i>Jan. 8</i>	Introduction and Contest Overview
<i>Jan. 15</i>	Number Theory
<i>Jan. 22</i>	Counting and Probability I
<i>Jan. 29</i>	Counting and Probability II
<i>Feb. 5</i>	Counting and Probability III
<i>Feb. 12</i>	Algebra
<i>Feb. 19</i>	Algebra II
<i>Feb. 26</i>	Geometry I
<i>Mar. 4</i>	Geometry II
<i>Mar. 11</i>	Data Analysis
<i>Mar. 18</i>	Patterning and Sequences
<i>Mar. 25</i>	Ratios and Rates
<i>Apr. 1</i>	Logic Problems
<i>Apr. 8</i>	Contest Practice and Review
Euler and Lagrange Contest Writing (April 10th, 2024)	
CEMC BCC Prep (November 2024)	
<i>Apr. 15</i>	Introduction and Contest Overview
<i>Apr. 22</i>	How Computers Work
<i>Apr. 29</i>	Graph Theory I
<i>May 6</i>	Graph Theory II
<i>May 27</i>	Boolean Algebra
<i>June 3</i>	Binary
<i>June 10</i>	Contest Practice and Review
<i>June 17</i>	Contest Practice and Review II