Thinking Feet
Advanced Math L2 + Competition Math L1

Fall Semester 2022 - Thursday 5:30PM
*Estimated Plan, there may be some deviations

Class	Domain	Details
1	Problem Solving Strategies (draw it out, make a table, create an organized list, more) Math Olympiad Introduction	Students learn fundamentals of problem solving strategies. Students get exposure to Competition Problems so they have an idea of the journey ahead
2	Problem Solving Strategies (draw it out, make a table, create an organized list, more) Math Olympiad Introduction	Students learn fundamentals of problem solving strategies. Students get exposure to Competition Problems so they have an idea of the journey ahead
3	Problem Solving Strategies (draw it out, make a table, create an organized list, more) Math Olympiad Introduction	Students learn fundamentals of problem solving strategies. Students get exposure to Competition Problems so they have an idea of the journey ahead
4	Patterns with Figures	Patterns are a very important concept that show up in many areas. Students will learn pattern identification using shapes and figures.
5	Patterns with Figures	Students will learn pattern identification using shapes and figures.
6	Faster Arithmetic - Additions, Subtractions	Tricks and strategies to increase speed of arithmetic operations
7	Patterns with Numbers	Students will learn pattern identification using numbers.
8	Patterns with Numbers	Students will learn pattern identification using numbers.
9	Faster Arithmetic - Multiplication, Division	Tricks and strategies to increase speed of arithmetic operations
10	Geometry - structured counting	Strategies for counting number of triangles, rectangles etc in complex shapes
11	Geometry - structured counting	Strategies for counting number of triangles, rectangles etc in complex shapes

Class	Domain	Details
12	Challenging arithmetic problems to figure out unknown digits in an arithmetic operation - addition and subtraction	E.g 8A5+B79 = C23D. Find A,B,C,D
13	Challenging arithmetic problems to figure out unknown digits in an arithmetic operation - addition and subtraction	
14	Magic Squares & Triangles	Identifying number elements inside Magic Squares and Triangles
15	Magic Squares & Triangles	
16	Challenging arithmetic problems to figure out unknown digits in an arithmetic operation - multiplication and division	E.g. 73A X A3 = 389AA, Find A
17	Challenging arithmetic problems to figure out unknown digits in an arithmetic operation - multiplication and division	
18	Geometry - Creative Perimeter Calculations	Calculating Perimeters of Complex Shapes using efficient strategies
19	Geometry - Creative Perimeter Calculations	
20	Geometry - Creative Perimeter Calculations	
21	Problems with Calendars and Dates	
22	Problems with Calendars and Dates	
23	Problems and Strategies on 'Averages'	Understand the concepts of simple and weighted averages and applications in problems

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24	Problems and Strategies on 'Averages'	
25	Creative Strategies for Arithmetic Word Problems - 1	Strategies to solve problems where information is not presented in a straightforward fashion
26	Creative Strategies for Arithmetic Word Problems - 1	Strategies to solve problems where information is not presented in a straightforward fashion
27	Creative Strategies for Arithmetic Word Problems - 2	Speed and Distance
28	Creative Strategies for Arithmetic Word Problems - 2	Speed and Distance
29	Working Backwards - 1	A strategy to solve problems where things happen in sequence
30	Working Backwards - 2	A strategy to solve problems where things happen in sequence
31	Ratios and Fractions	
32	Ratios and Fractions	
33	Ratios and Fractions	
34	Problems and Strategies using Division Remainders	Remainders in division a very useful concept applicable in many scenarios especially higher level number theory (later known as modular arithmetic)
35	Creative Strategies for Arithmetic Word Problems - 3	
36	Creative Strategies for Arithmetic Word Problems - 3	