Olympiads School Data Management Outline

First Name: _____ Last Name: _____ Course Session: _____

Course Outline

Lesson 1	Prerequisite Skills Chapter 1: Organized Counting, Factorials and Permutations
Lesson 2	HW 1 take up Chapter 1: Permutations with Some Identical Elements, Pascal's Triangle and Applying Pascal's Method
Lesson 3	HW2 take up Chapter 2: Organized Counting with Venn Diagrams, Combinations
Lesson 4	HW 3 take up Chapter 2: Problem Solving with Combinations, The Binomial Theorem
Lesson 5	HW 4 take up Chapter 3: Basic Probability Concepts, Odds, Probabilities Using Counting Principles
Lesson 6	HW 5 take up Chapter 3: Dependent and Independent Events, Mutually Exclusive Events Applying Matrices to Probability Problems
Lesson 7	HW 6 take up Chapter 4: Intro to Probability Distribution, Uniform and Binomial Distribution
Lesson 8	**Open Book Test (1) Chapter 1-3** HW 7 take up
Lesson 9	HW8 take up Chapter 4: Geometric and Hypergeometric Distributions
Lesson 10	HW9 take up Chapter 5: Data Visualization, Sampling Techniques, Bias in Surveys
Lesson 11	HW10 take up Chapter 5: Measures of Central Tendency, Measures of Spread
Lesson 12	HW11 take up Chapter 5: Linear Correlation and Regression, Cause & Effect
Lesson 13	HW12 take up Chapter 6: Continuous Probability Distribution, Properties of Normal Distribution
Lesson 14	HW13 take up Chapter 6: Normal Sampling and Modelling, Normal Approximation to Binomial Distribution
Lesson 15	HW14 take up Chapter 6: Repeated Sampling, Hypothesis Testing and Confidence Intervals
Lesson 16	**Open Book Test (2) Chapter 4-6 (minus last topic)** HW 15 take up