UNIT 7: COUNTING & PROBABILITY

Use theoretical and experimental probability to model and solve problems.
a) Use addition and multiplication principles.
b) Calculate and apply permutations and combinations.
c) Create and use simulations for probability models.
d) Find expected values and determine fairness.
Identify and use discrete random variables to solve problems

Day	Topic/Objective	Activity
1 Monday, 5/7	**Unit 7 Day 1 Notes –** Fundamental Counting Principle	
2 Tuesday, 5/8	More Practice with Fundamental Counting Principle	
3 Wednesday, 5/9	**Unit 7 Day 2 Notes –** Permutations & Combinations	
4 Thursday, 5/10	Day 1 & 2 Review	
5 Friday, 5/11	**Unit 7 Day 3 Notes –** Empirical vs. Theoretical Probability & Basic Probability	**Unit 7 Quiz (Days 1 & 2)**
6 Monday, 5/14	**Unit 7 Day 4 Notes –** Probability of Mutually Exclusive Independent/Dependent Events	
7 Tuesday, 5/15	Review/More Practice with Day 3 & 4	
8 Wednesday, 5/16	**Unit 7 Day 5 Notes –** Expected Value and Fairness	
9 Thursday, 5/17	**Unit 7 Day 6 Notes –** Geometric Probability	
10 Friday, 5/18	**Unit 7 Day 7 Notes –** Binomial Probability	
11 Monday, 5/21	Review Day	
12 Tuesday, 5/22	**Unit 7 Test**	**Unit 7 Test**