Honors Finite Math - Chapter 6: Sets and Counting Techniques **Learning Target Progress Tracking**

Learning Target	Level 1 Understand while teacher is explaining	Level 2 Can work problem on my own w/example to follow	Level 3 Can work a problem similar to one I've seen w/o needing an example	Level 4 Understand concept/procedure well enough to teach others and to work problems not similar to ones I've seen
LT6.1: Represent sets of elements using roster or set-builder notation.				
LT6.2: Perform operations or state the value of these set terms using the values of given sets: empty set, universal set, subset, proper subset, negation, complement, union, intersection, disjoint sets and know the corresponding symbols .				
LT6.3: Represent sets, unions (or), intersections (and), and complements using a Venn diagram.				
LT6.4: Use order of operations or DeMorgan's properties to list of the elements in, or describe in words, an expression of sets.				
LT6.5: Use Venn diagrams or the Counting Formula (as appropriate) to state the number of elements in a subset.				
LT6.6: Use the Multiplication Principle to find the count in a counting word problem (e.g. combo meals, telephone numbers, outfits, etc.)				
LT6.7: Use Combinations, Permutations, or Distinguishable Permutations (as appropriate) to find the count in a counting word problem. Be able to compute using formula or calculator.				
LT6.8: Use multiplication ('and') and addition ('or') of counts as appropriate to solve more advanced counting word problems.				
LT6.9: Use the Binomial Theorem to expand a binomial raised to a power or to find the number of subsets that can be chosen from a given set.				