Unit 3: Combinations					
3.00 Prerequisite Skills					
Learning Goals	I know how to evaluate factorials	1	2	3	
	I know how to calculate permutations	1	2	3	
	I know how to extend Pascal's triangle	1	2	3	
	I know how to calculate probabilities	1	2	3	
	I know how to use a tree diagram	1	2	3	
	I know how to draw and use a Venn diagram	1	2	3	
	I know how to simplify expressions	1	2	3	
3.10) Permutations with Non-Ordered Elements				
Learning Goals	I can recognise the advantages of different counting techniques.	1	2	3	
	I can make connections between situations that involve permutations and combinations.	1	2	3	
3.20	Combinations				
Learning Goals	I can recognise the advantages of using permutations and combinations over other counting techniques.	1	2	3	
	I can apply combinations to solve counting problems.	1	2	3	
	I can express combinations in standard notation: $C(n,r)$, ${}_{n}C_{r}$, $\binom{n}{r}$.	1	2	3	
3.30	30 Problem Solving with Combinations				
Learning Goals	I can distinguish situations that use permutations from those that use combinations.	1	2	3	
	I can solve problems using the rule of sum and the fundamental counting principle.	1	2	3	
3.40	Combinations and Pascal's Triangle				
Learning Goals	I can make connections between combinations and Pascal's triangle.	1	2	3	
3.50	Probabilities Using Combinations				
Learning Goals	I can solve probability problems using counting principles.	1	2	3	
3.60	Review				
3.65	Extra Review (if necessary)				
3.70	Test				

After each lesson grade yourself from one to three on each learning goal based on the criteria below. This will help you to build a review plan for the end of unit assessment.

- 1. I need extra help with this concept
- 2. I need more practice with this concept
- 3. I can teach this concept to someone else

Unit 3 – Combinations

- 3.00 MHR Page 102 #s 1 17
- 3.10 MHR Page 108 #s 1 9 & 13
- 3.20 MHR Page 113 #s 1 5, 8 & 10
- 3.30 MHR Page 120 #s 1 5
- 3.35 MHR Page 120 #s 6 8 & 10
- 3.40 MHR Page 126 #s 1 3, 5, 6 & 13abc
- 3.50 MHR Page 132 #s 1 4, 6 & 7
- 3.60 MHR Page 134 #s 1 17
- 3.65 MHR Page 136 #s 1 17
- 3.70 TEST Combinations