	Name: Group:	-Title, Purpose, Hypothesis
Genetics and Probabili	ty Lab	-DataTable

Much of genetics can be understood by knowing the probability of a

	situation.		,			
	You and another member of your group will each flip two coins and record the results. Ex: 2 heads, 1 head and 1 tail, or 2 tails.					
Hypothesis	Predict how many times you think the coins will be (out of 100 trials):					
ŕ	2 heads	1 head and 1 tail	2 tails			
	Now actually flip the two coins and record the results on the table below:					
	Two Heads	One Head and One Tail	Two Tails			
Data asle ->						
Results (>)	Totals from your 100 tria	lls: (y <sub>UW</sub> + 1)  1 head and 1 tail				
Capping of the Cappin	2 heads	1 head and 1 tail	2 tails			
	Finish the coin toss activity then add your results to the second set of results from your group. When you are finished turn in your group totals to the instructor.					
	Totals from your group (200 trials total): (you + + oble)					
	2 heads	1 head and 1 tail	2 tails			
	Totals from your class: (All totals)					
	> 2 heads	1 head and 1 tail	2 tails			

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Ratios of your Results (2 Heads: 1 Head and 1 Tail: 2 Tails)	
Yours:	
Group:	
Class:	

## 0'5

## Questions:

If the coin were to represent the parent plant each side of the coin represents a factor (trait). Lets say that Heads represents a tall gene and Tails represents a short gene.

- 1. What is genotype for each of the parent plants?
- 2. What type of plant is represented by 2 heads, a tall or a short plant?
- 3. What type of plant is represented by 2 tails, a tall or a short plant?
- 4. What type of plant is represented by 1 head and 1 tail, a tall or a short plant?
- 5. How many tall plants did your group produce from 200 coin tosses?
- 6. How many short plants did your group produce from 200 coin tosses?
- 7. What is the ratio of tall to short plants from your group?
- 8. What is the ratio of tall to short plants from your class?