#### Eggsy Student Sheet (Adapted from Ms. Lau's Science)

#### PART 6: INCOMPLETE DOMINANCE

48	. List the different ph	enotypes in this p	oopulation		•	
49	. How is this populati	on different from	the previous Egg	sy population?		
50	. Complete the data	,	g the entire class	data.		
ſ	Phenotype	# of Eggsys	Genotype	# of a	# of alleles	
			·	В	b	
		·				
-	· · · · · · · · · · · · · · · · · · ·					
Ĺ						
51	. Which phenotype is	most common i	n this population?			
	. Which allele is mos					
	. Notice that the hete					
00	is dominant meaning				. Notation the B of B	
54	. Pair with another st		-			
	a. Parent #1 alle			ou nom you.		
	b. Parent #2 alle					
55	. Use the same proce			reate a new hahv		
00.	•		m Parent #1	•		
	• •		m Parent #2			
	÷			•		
	c. Baby #1 gend					
EC	d. Baby #1 pher					
50.	. Repeat step 55 twic	•				
	a. Baby #2 geno	туре	-	phenotype		

## Eggsy Student Sheet (Adapted from Ms. Lau's Science) b. Baby #3 genotype phenotype 57. Fill out the Punnett Square for the parents from #55. 58. What percent chance will the first baby be a. BB?\_\_\_\_\_ b. Bb?\_\_\_\_\_ c. bb?\_\_\_\_\_ 59. The parents are Bb and BB. a. What are the alleles of Parent 1? \_\_\_\_\_ b. What are the alleles of Parent 2? \_\_\_\_\_ c. Fill out the Punnett Square. What percent chance will their first baby be BB? Bb? ii. bb?\_\_\_\_\_ iii. d. If these parents have many many children, what percentage of these children will be each phenotype? 60. The parents are Bb and bb. a. What are the alleles of Parent 1? b. What are the alleles of Parent 2? \_\_\_\_\_ c. Fill out the Punnett Square. What percent chance will their first baby be BB?\_\_\_\_\_

Bb? \_\_\_\_\_

bb? \_\_\_\_\_

ii.

iii.

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d. If these parents have many many children, what percentage of the	se children will be
61. The parents are bb and bb.	
a. What are the alleles of Parent 1?	
b. What are the alleles of Parent 2?	
c. Fill out the Punnett Square. What percent chance will their first bab	by be
i. BB?	
ii. Bb?	
iii. bb?	
d. If these parents have many many children, what percentage of	
these children will be each phenotype?	
62.How is this population of Eggsys different from the purple and orange pop	oulation?
63. If an Eggsy family has 3 green and one yellow child, what are the possibl parents?	
64. If one parent is homozygous and the other is heterozygous, is it possible babies with all 3 phenotypes? Why or why not?	for them to have

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65. Two green parents are surprised when they have a blue and then yellow baby. Explain why	
this is possible.	
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