Dragon Genetics

# 1	neck	eye color	horn
Mo	om n	E	h
# 1	neck	eye color	horn
da	d N		h

#3	breath	body color	spike
Mom	F	b	s
#3	breath	body color	spike
Dad	F	B	s

Name		
· · · · · · · · · · · · · · · · · · ·	Dragon Genetics	E
Procedure: 1. Remove the yellow and green strips of pup, creating three sets.	paper from the envelope. Use the numbers found on each to pa	air (
What do these strips of paper represent?		26
2. Use Table 1 to record the three traits for	und on each pair of paper strips. For example, for the pair num "Trait" column. Fill in the traits for each of the three pairs.	
3. In the next column, record the letter underlower case letter. This is the genotype for e	er each trait. Be sure to indicate whether it is a capital letter of each trait.	га
What do these letters represent?		
	AN SEC	
11		
	dragon will exhibit the dominant trait or the recessive trait.	
How do you know?	3	
a .	4	

5. Next, determine the phenotype of your dragon using the "Key to dragon trait alleles" provided under Table

8. Finally, write your conclusion. You should answer the three questions: What did you do? What did you

and color them accordingly.

the appropriate body

6. In the last column, indicate whether your dragon is heterozygous or homozygous for each trait.

and record this information in the space provided in Table 1.

7. Now that you have determined which traits your dragon will exhibit,

What does heterozygous mean? Give an example.

What does homozygous mean? Give an example.

on a separate sheet of paper

find? What does this mean?

Chromosome	1-				
pair number	Trait	Genotype	Dominant/ Recessive	Phenotype	Homozygou Heterozygo
2					
D)					
Chromosome	Trait				
pair number	ITAIL	Genotype	Dominant/ Recessive	Phenotype	Homozygous Heterozygous
	. 9		_4.5		
2)AT			
					<u> </u>
101		s			
Chromosome air number	Trait :	Genotype	Dominant/ Recessive	Phenotype	Homozygous/ Heterozygous
3		, pr 8	17		10.0.02/9003
	K				

 Key to dragon trait alleles
 E-red eyes N-long neck H-hom n-short neck e-white eyes h-no hom F-fire breathing B-green body T-long tail f-does not breath fire b-grey body t-short tail S-spike at end of tail W-red wings C-three claws s-no soike at end of tail w-yellow wings c-four claws