## **Dog Breeding Simulation**

Your goal is to breed a certain type of border collie puppy by selecting parents with the right traits. <a href="http://www-tc.pbskids.org/dragonflytv/games/dog">http://www-tc.pbskids.org/dragonflytv/games/dog</a> breeding v37.swf

Level 1										
1. Goal P	uppy: _								Father's	Genes
2. Fill in t	the tabl	e bel	ow.							
			Allele	F	henotype					
	Domin	ant								
	Recess	sive						nes		
					each your goa			Mother's Genes		
	•				•		ts traits. Create a	er's		
	•		•			s. Cir	cle the offspring in the	ŧ		
Punnett	square 1					<u>~</u>		Š		
		- 10	/lale Dog	,	Female Do	g				
Genot	ype									
Pheno	type									
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Level 2 1. Goal P										_
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	Domin	ant.	Allele		Пепотуре	:				
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Genot	vne	11	naic Dog	,	Terriale Do	Б				
	-									
Pheno	type									
Level 3										
1. Goal P	vagu									
2. Fill in t										
			Allele	F	henotype					
	Domin	ant								
	Recess	sive								
3. How n	nany tri	es di	d it take	to re	each your goa	il? _				

4. Record the parents chose and their traits. Make a Punnett square to show the possible offsprings. Circle the offspring in the Punnett square that was the result.

	Male Dog	Female Dog
Genotype		
Phenotype		

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- 1. Goal Puppy: \_\_\_\_\_
- 2. Fill in the table below.

	Allele	Phenotype
Dominant		
Recessive		

3. Record the parents chose and their traits.

	Male Dog	Female Dog
Genotype		
Phenotype		

## Level 5

- 1. Goal Puppy: \_\_\_\_\_
- 2. Fill in the table below.

	Allele	Phenotype
Dominant		
Recessive		

3. Record the parents chose and their traits.

	Male Dog	Female Dog
Genotype		
Phenotype		

## Level 6

- 1. Goal Puppy: \_\_\_\_\_
- 2. Fill in the table below.

	Allele	Phenotype
Dominant		
Recessive		

3. Record the parents chose and their traits.

	Male Dog	Female Dog
Genotype		
Phenotype		