Dog Breeding Simulation

Your goal is to breed a certain type of border collie puppy by selecting parents with the right traits.
http://www-tc.pbskids.org/dragonflytv/games/dog_breeding_v37.swf

Level 1

1. Goal Puppy: _____

2. Fill in the table below.

	Allele	Phenotype
Dominant		
Recessive		

3. How many tries did it take to reach your goal? _____

4. When you find the goal puppy, record the parents traits. Create 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		

Father's Genes

Mother's Genes

Level 2

1. Goal Puppy: _____

2. Fill in the table below.

	Allele	Phenotype
Dominant		
Recessive		

3. How many tries did it take to reach your goal? _____

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		

Father's Genes

Mother's Genes

Level 3

1. Goal Puppy: _____

2. Fill in the table below.

	Allele	Phenotype
Dominant		
Recessive		

3. How many tries did it take to reach your goal? _____

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		

Father's Genes

Mother's Genes

Level 4
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		