

Name: _____

Date: _____

Revise Your Model

Directions: Fill in the model for an animal of your choice that we've seen have a heavily muscled phenotype (such as sheep, dogs, pigs). Write the components you are including on the left. You may choose to use words from the following list to make your ideas clear, but you may not need to use all of them: genotype, phenotype, sperm, egg, sex cells, allele, protein, gene, food, chromosomes, parents, offspring.

Component	Animal Other than Cattle with Typical Musculature	Heavily Muscled Animal
Chromosome pairs inside the parents' cells ↓		
Resulting phenotype we see		

Using your model, explain why we see some organisms have extra-big muscles and others have typical muscles. Again, you may choose to use words from the following list to make your ideas clear, but you may not need to use all of them: genotype, phenotype, sperm, egg, sex cells, allele, protein, gene, food, chromosomes, parents, offspring.
