

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Unit 8.5, Lesson 1, Initial Model

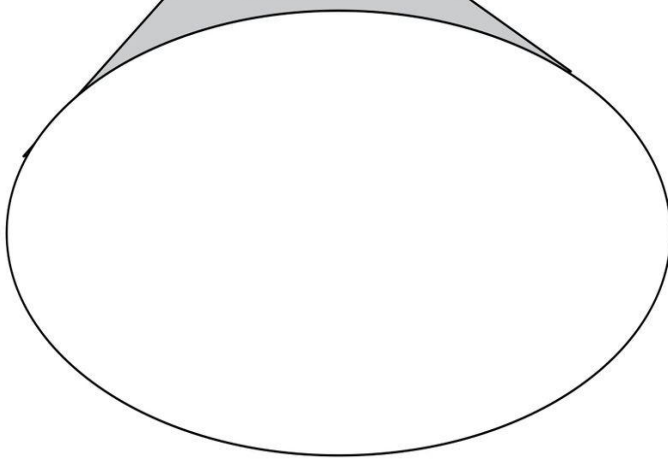
Develop an initial model to explain this question: **What do you think caused this animal to get such big muscles compared to typical animals?**

1. Choose a type of animal we have seen that had an individual with extra-big muscles. Sketch that animal in the top of each box, with typical muscles on the left and with extra-big muscles on the right.
2. If you could view the muscle cells in the muscle tissue from both animals with a microscope, how would they compare? Draw and/or write in the ovals what you would expect to see.
3. On the lines below, explain how you think the animal on the right got those extra-big muscles and the other one did not.

### Typical animals

1. Sketch of animal:

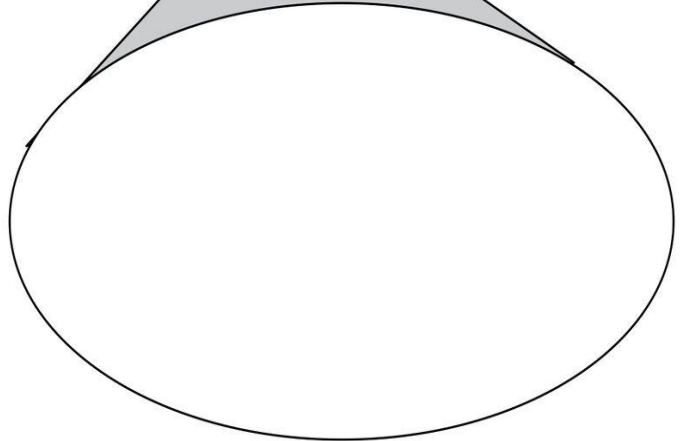
2. Zoom in on the muscle cells:



### Extra-big muscled animal

1. Sketch of animal:

2. Zoom in on the muscle cells:



4. Explain how the animal on the right got those extra-big muscles but another animal did not.