

 **Activity 6.1.2 Show Me the Part****Purpose**

The male reproductive system is very complex. In order to produce offspring, it is essential that the male produce healthy sperm. In order to have healthy sperm, the male reproductive tract must be functioning properly. In the livestock industry, semen from superior sires has become a valuable commodity in the use of improving genetics of offspring without having to purchase a costly sire.

While labeling diagrams of animals and animal organisms is very useful and a method of learning, much more can be grasped when you can see and touch a real animal. Your teacher will perform a dissection during this activity. Observe your teacher closely; the demonstration will model skills you will use in *Activity 6.1.3 Find That Part*.

**Materials****Teacher:**

- Preserved male reproductive tract
- Dissection tool kit
- 10 dissection pins
- 8 sticky flags
- Large dissecting pan
- Disposable gloves
- Lab apron

**Per student:**

- Pencil
- *Agriscience Notebook*

**Procedure**

Your teacher will dissect a male reproductive tract. During the dissection, identify and label the major parts of the male reproductive system, which you learned about during *Activity 6.1.1 Name That Part*.

**Part One – External Examination**

1. Determine the species of animal the tract where the tract originated. Record on *Activity 6.1.2 Student Worksheet*.
2. Your teacher will identify the external parts of the male reproductive tract.
3. Make notes on the appropriate diagram recording your visual observation of how each part looks.

**Part Two – Internal Examination**

1. Your teacher will begin opening the reproductive tract, beginning with the scrotum and then the testicles.
2. Record your observations on Table 1 of *Activity 6.1.2 Student Worksheet*. Note differences in texture, color, and density of tissue.
3. Continue to follow along as your teacher opens the rest of the reproductive tract and record your observations.

4. Make notes of how your teacher completes the dissection in order to do a dissection on your own during the next activity.

### **Part Three – Flow Chart**

In the space provided on the student worksheet, draw a flow chart depicting the development and maturation of a sperm cell.

### **Conclusion**

1. How is the preserved specimen different from the diagram you labeled in *Activity 6.1.1 Name That Part*?
2. Where is the hormone testosterone produced?
3. List as many major parts of the male reproductive system that you can remember.

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

## Activity 6.1.2 Student Worksheet

Specie of the tract: \_\_\_\_\_

**Table 1. Male Reproductive Tract Dissection Observations**

<b>Reproductive Organ</b>	<b>External Observation</b>	<b>Internal Observation</b>
<b>Scrotum</b>		
<b>Testicle</b>		
<b>Epididymis</b>		
<b>Vas Deferens</b>		
<b>Cowper's Gland</b>		
<b>Prostate Gland</b>		
<b>Seminal Vesicle</b>		
<b>Penis</b>		

Draw a flow chart that depicts the movement of sperm cells from their point of origin to the outside of the body.