Name _____ **Per.** _____ **Date** _____

Pig Dissection

Complete the Lab Write Ups by filling in blanks within the procedure.

Title: The Urinary System Lab

Purpose: To dissect and observe the structures of the cat urinary system

Materials: shirt, gloves, paper towels, scalpel, forceps, scissors, probes, cat, colored pencils, rubber bands, drawing paper, lab manuals, handouts

Dissection of the Cat Urinary System

Procedure:

1. Use the illustration manual to aid in identifying the structures of the cat urinary system
2. Push the intestines of the _____ system to one side until you locate the **kidneys.**
3. Carefully remove the thin and transparent membrane called the _____ that covers the kidney, renal blood vessels, and ureter to gain a clearer view of the kidney. You may also need to remove adipose tissue surrounding these structures as well.
4. When removing connective tissue, do not remove too hard because you might accidentally remove a delicate tube called the _____.
5. Once you have removed connective tissue and isolated the kidney, renal blood vessels and ureter, you will then remove the _____ _____, which is a connective tissue that covers the kidney.
6. Use scissors, carefully, and cut the renal capsule away from the kidney at the hilum. **MAKE SURE YOU DO NOT CUT THE RENAL BLOOD VESSELS AND URETER**.
7. Identify and observe the following external structures:
   - **Kidney***
   - **Hilum**
   - **renal artery***
   - **renal vein***
   - **ureter***
   - **urinary bladder***
   - **urethra***

The following instructions are NOT in the video, but you will be performing.

8. Dissect the other side of the urinary system. Repeat Steps 2-6
9. Choose a side of the urinary system and remove one of the kidneys.
10. To begin the removal of the kidney, identify the renal vein and cut the renal vein as close as possible to the **inferior vena cava.**
11. Next cut the **renal artery** as close as possible to the descending aorta.
12. Cut 2 inches worth of the **ureter**, and this final cut will allow you to remove the kidney from the body.
13. To cut the free kidney in half, hold the kidney with your forceps and use the **scalpel** to cut the kidney into 2 equal halves.
14. Identify and observe the following internal structures:
    - **Renal cortex***
    - **Renal medulla***
    - **Renal pelvis***
    - **Renal artery**
    - **Renal vein**
    - **Ureter**