

Dog Kidney Teacher Guide

Introduction:

Dog kidneys are a pair of bean-shaped organs located on the dorsal side of the abdomen. One is located on the left side and the other on the right side. The kidneys are part of the urinary tract where blood is filtered and urine is produced. The kidneys are also important for emission and absorption of water in the body.

Worksheet Guide:

Materials needed: *Dog Kidney Model*, *Dog Kidney Quick Start Guide*, *Dog Kidney Worksheet* and *Dog Kidney Worksheet Answer Key*.

Steps for using the *Model* with the *Worksheet*:

Step 1: Have students study the location of the parts of the kidney using the *Quick Start Guide* and *Model*.

Step 2: After using the *Quick Start Guide* to get an understanding of the parts of the kidney, hand out the *Worksheet* for students to complete.

Step 3: Use the *Answer Key* to correct the *Worksheet*.

Key Terms and Definitions:

Discuss and demonstrate the location and function of these parts on the *Dog Kidney Model*:

Medulla: innermost part of the kidney

Renal vein: vein that carries blood to each kidney

Renal artery: artery that carries blood away from the kidneys

Renal pelvis: funnel like part of the ureter that connects to the kidney

Ureter: carries urine to the bladder

Cortex: where ultrafiltration occurs

Capsule: casing/covering of the outer kidney

Name: _____ Class: _____

Dog Kidney Worksheet

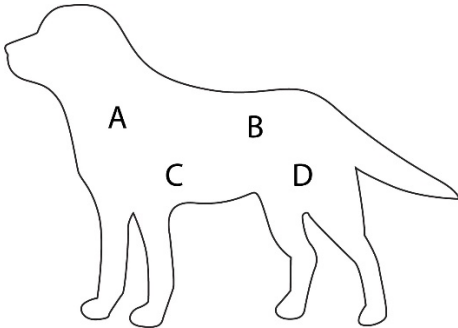
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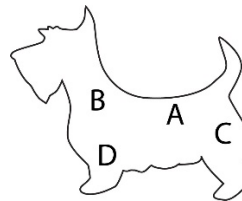
Activity:

Locate where the left kidney should be on each of these dogs and circle the correct letter.

A)



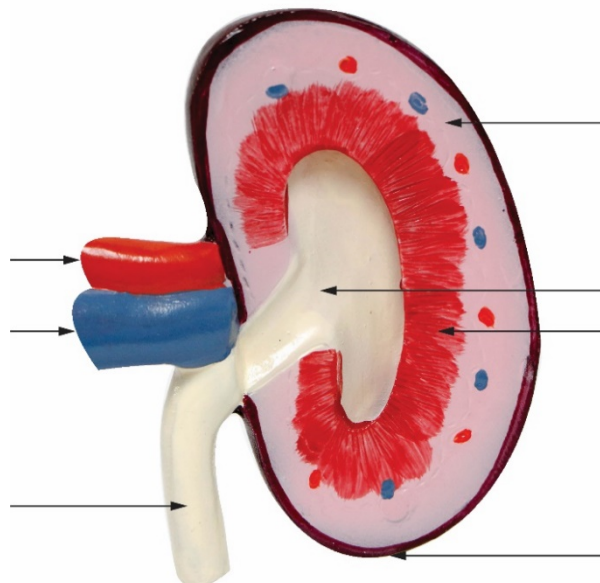
B)



Activity:

Write the correct term with the correct location on the kidney:

1. Medulla
2. Renal vein
3. Renal artery
4. Cortex
5. Ureter
6. Capsule
7. Renal pelvis



Dog Kidney Worksheet Answer Key

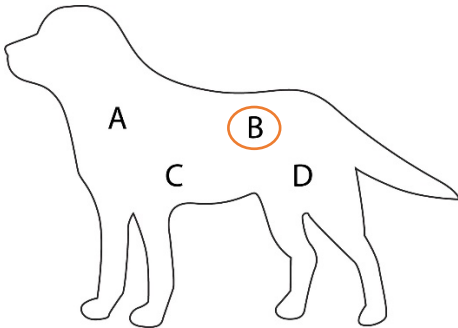
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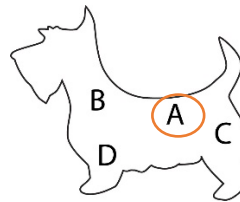
Activity:

Locate where the left kidney should be on each of these dogs and circle the correct letter.

A)



B)



Activity:

Write the correct term with the correct location on the kidney:

1. Renal artery
2. Renal vein
3. Medulla
4. Ureter
5. Cortex
6. Capsule
7. Renal pelvis

