

NAME: _____

BIOLOGY UNIT 1

KIDNEY DISSECTION PRACTICAL

Instructions

- Put on safety equipment including lab coat, safety glasses, gloves, and tie back long hair
- Collect equipment including dissection board and tools
- Collect a kidney and lay it flat on your dissection board
- Draw a life-size diagram of the external structure of the kidney on a piece of paper. Include a heading and label the following structures on your diagram: Fibrous renal capsule, Hilum, Adipose tissue, Ureter
- Make observations and answer Questions 1 to 4 below:

Questions

1. Measure the kidney: Length: _____ cm
Width: _____ cm (2 marks)
2. What animal has this kidney come from? How does the size of this animal's kidney compare to a human's kidney? (1 mark)

3. What is the colour of
 - a) the membrane around the kidney? _____ (1 mark)
 - b) the kidney? _____ (1 mark)
4. It should be possible to identify three tubes entering or leaving the kidney. What are these called? (3 marks)

- Use a scalpel and make a longitudinal section through the kidney
- Use pins and the labels provided to make small flags to indicate the following structures:
 - Renal capsule
 - medulla
 - calyx
 - adipose tissue
 - cortex
 - renal callacys
 - ureter
 - pyramid