

Processing Out

1. Look at the kidney diagram on your timer. Which structures do you think are responsible for blood flowing into and out of the kidney?



Provide a *rationale* for your supposition.

2. Explain where you think the special filtering cells are located and explain your reasoning.

3. The diagram shows the blood vessels that carry blood to and from the kidneys but does not show where or how wastes leave the kidney. Sketch and label a diagram of the kidney structures that show how you believe wastes leave the kidney once they are filtered from the blood. Be sure you explain the way your structure functions to drain away wastes.



**D
I
A
G
R
A
M**



LESSON 4
ACTIVITY 4B

Cast Your Net: Adventures With Blood

4. Look at the data in the **Race Data Table**.
- a. Is it correct to average the times for all of your races?
Explain your answer.
 - b. What is the mode in this set of data?
 - c. What is the range in this set of data?



5. If more glucose and waste products are circulating in the blood because of diabetes, how must the kidneys respond in order to keep up with the load?

6. What do you think will happen to the kidneys if they must keep responding to the excess of waste products over a long time period?

7. Why might high blood pressure impair kidney function?

