

Name: _____

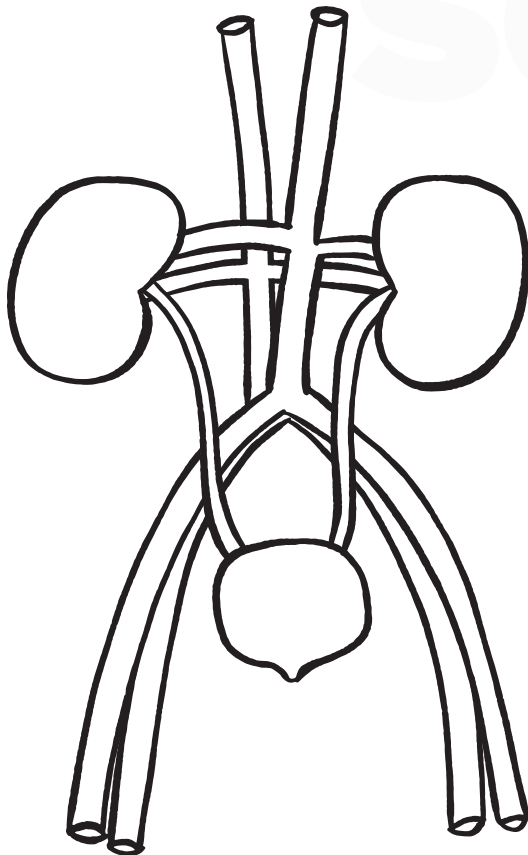
GET TO KNOW YOUR KIDNEYS

Answer the questions below as you progress through the Get to Know Your Kidneys lesson and slideshow.

1. How does your body make urine?

2. List all the waste products your body makes.

3. Draw arrows from the words to the corresponding areas on the diagram.



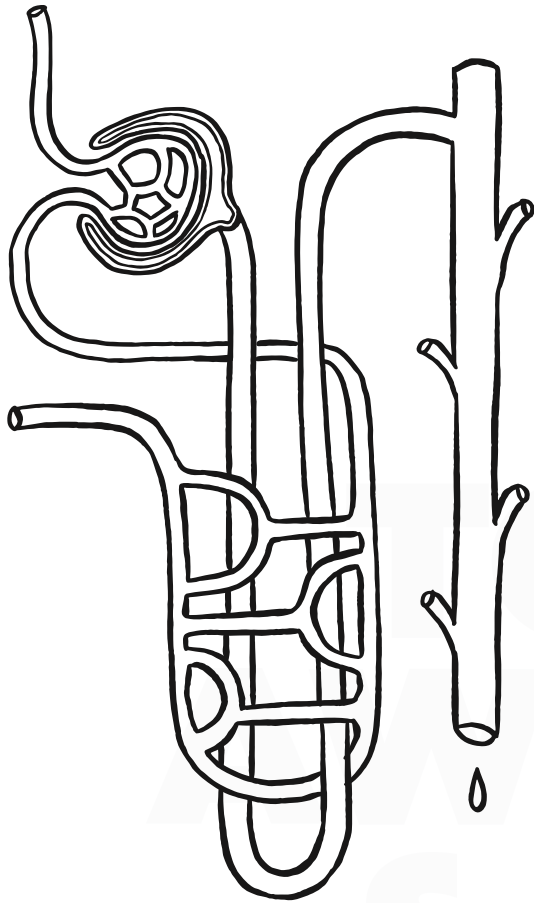
BLOOD VESSELS

KIDNEYS

URETERS

BLADDER

4. Draw arrows from the words to the corresponding areas on the diagram.



GLOMERULUS

BOWMAN'S CAPSULE

TUBULES

BLOOD VESSELS

COLLECTING DUCT

5. What is the function of principal cells?

6. What is the function of intercalated cells?

7. Predict what would happen if principal cells turned into intercalated cells?

EXPERIMENT TIME



8. Follow the Engineering Design Process while creating your model. Fill in your process below.

STEP 1: ASK What is the problem?

STEP 2: IMAGINE What are some solutions?

STEP 3: PLAN Write your draw the process/model you will use.

TOTALLY
AWESOME
SCIENCE

9. Create and test your model. Did it work? How can it improve?

10. The nephron filters out good and bad molecules from blood. Then, it puts all the good stuff back in the blood! How is your model the same? How is it different?

GROUP WORK NORMS

- Everyone in the group has useful knowledge.
- Everyone has something to learn from others.
- The group succeeds together.
- Listening is more important than being heard.
- You have the right to ask for help.
- You have a duty to give help to those that ask for it.
- No one is done until everyone is done.

READ YOUR DISEASE STUDY

11. What are three takeaways you have from this reading?

12. How does this add to your understanding of the function of the kidney?

MEET WITH OTHERS

13. Record any new information you learned about the kidney or the disease.

SHARE YOUR KNOWLEDGE

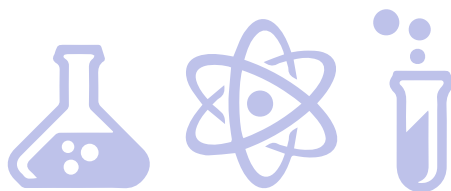
14. Share what you learned and record what you learned from others.



15. Respond to the claim below by using evidence gathered during the lesson.

Claim: The kidney has an essential function in the human body.

TOTALLY AWESOME SCIENCE



Here's what I did today!

Today I visited the virtual PROMISE Lab at Sanford Research. I learned about the excretory system and the role of the kidneys.