Urinary System and Excretion WebQuest

http://library.thinkquest.org/2824/Excretory.html

1. OH NO!!!! YOU HAVE FOUND YOUR SELF IN EUROPE..HOW DO YOU ASK FOR THE BATHROOM? __________________________

2. OH NO!!!! YOU HAVE FOUND YOUR SELF IN CHINA..HOW DO YOU ASK FOR THE BATHROOM? __________________________

3. OH NO!!!! YOU HAVE FOUND YOUR SELF IN SPAIN..HOW DO YOU ASK FOR THE BATHROOM? __________________________

4. The Excretory system is the system that _____________________________________________________________.

5. TRUE or FALSE: There is water in your urine? So this means, if you were dehydrated in the desert and needed a drink, you should drink your urine to HYDRATE YOU!

http://www.medindia.net/animation/anatomy_urinary.asp

1. Each kidney is about the size of a human ___________.

2. Label the diagram.


3. The specialized unit of the kidney is called the nephron, and its function is to produce ___________ by filtering waste and extra fluid from the blood. (Stop at slide 3)

http://www.tutorvista.com/content/biology/biology-iv/excretion/nephron-structure.php

4. The ________________ is the functional unit of the kidney. It consists of a twisted ______________ closed at one end and open at the other with a network of associated blood vessels (glomerulus).

5. Each kidney has approximately ___________ nephrons that are about ___________ in length.
6. Label the 4 primary regions of the nephron:

7. The ___________________________ is a large double-walled cup that contains a group of capillaries called the ___________________________.

8. The ___________________________ is a V-shaped segment of the nephron located in the renal medulla. It is continuous with the distal and proximal convoluted tubules.

9. The ___________________________ ducts receive the collecting tubules of several nephrons and open into the renal pelvis.

Go back to: [http://www.medindia.net/animation/anatomy_urinary.asp](http://www.medindia.net/animation/anatomy_urinary.asp) (slide 4)

10. Blood enters the kidney through the renal ________________ and passes into the nephron.
11. The bulk of the filtering takes place in the _________________.
12. The filtered wastes then travel through the tubule where the excess fluid is converted to _________________.
13. The urine reaches the renal pelvis and passes into the _________________.
14. Next, it enters the urinary ________________ to be stored until it is released via the _________________.
15. Finally, the filtered blood leaves the kidney through the renal _________________.


1. What does the renal vein do? What direction does blood flow in (toward or away from kidney)?

2. What does the renal artery do? What direction does blood flow in (toward or away from the kidney)?

3. What is the outermost part of the kidney called?
4. What does this section do?

5. What is the middle of the kidney called?

6. What does this section do?

7. What is the innermost part of the kidney called?

8. What does this section do?

9. Which section of the kidney does the glomerulus belong to?

10. Which section of the kidney does the Loop of Henle belong to?

11. Click on each of the substances in the blood. Which of these substances remains within the filtrate as waste?

12. Which of the substances diffuses back into the blood?

13. Click on the Loop of Henle. Describe the movement of water and of salt in the descending loop.

14. Describe the movement of water and salt in the ascending loop.

http://kidshealth.org/parent/general/body_basics/kidneys_urinary.html

1.) Identify four different wastes produced by your body?
   a. 
   b. 
   c. 
   d.

2. Out of these wastes produced by your body, which waste product is produced by the kidney?

______________________
3. At the top, right side of the page click on “Body Basics: Kidney and Urinary Tract”. DRAW in the space below a picture of the Urinary tract, LABEL your picture and give a brief description of each body part. If you move the mouse over each body part it will give you a description.

http://www.davita.com/dialysis/

*click on Animation and watch “How dialysis works”*

1. What is dialysis?

2. What are some benefits of dialysis?