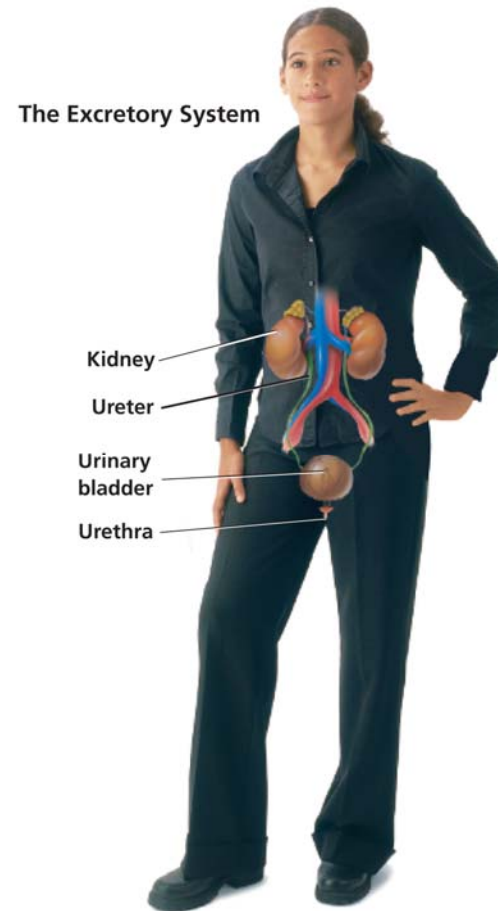


# The Excretory System

- **Definition:** The system in the body that collects wastes produced by the cells and removes them from the body, called **excretion**.
- **Purpose of Excretion:** to maintain homeostasis (keeping the body and internal environment stable and free of harmful levels of chemicals)

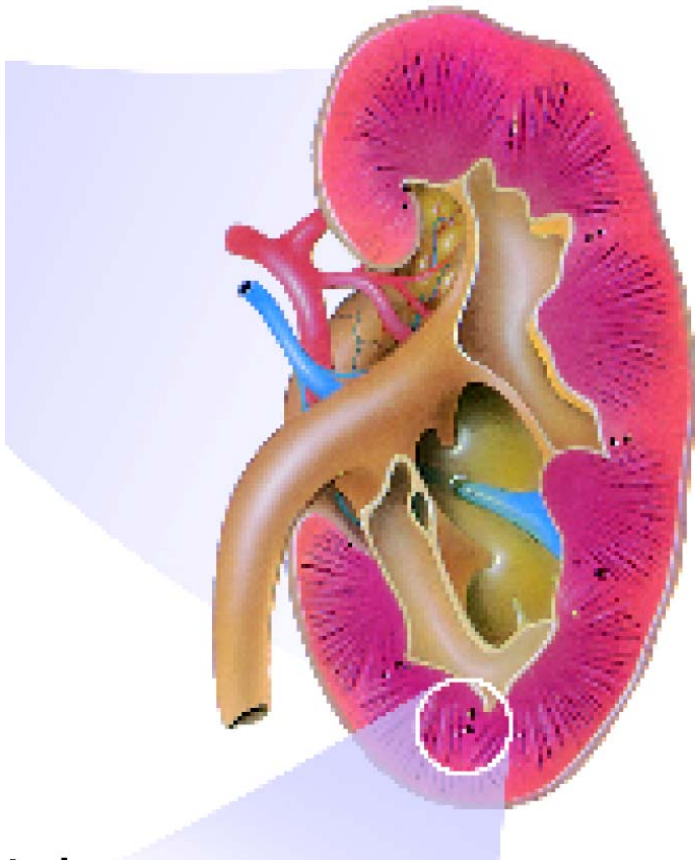


[Click here for a short video clip about the Excretory System](#)

# Organs of the Excretory System

(part one)

Kidney

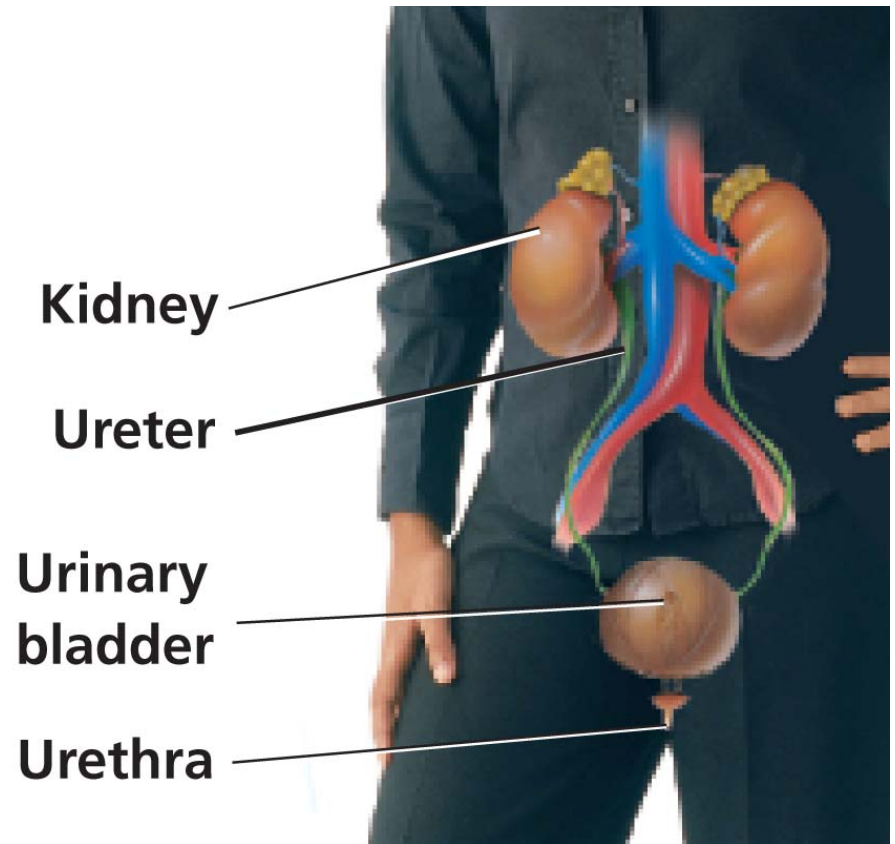


- **Kidney:** removes urea and other wastes from the blood.
- Act like **filters**
- **Urea:** chemical that comes from break down of protein
- **Urine:** Wastes are eliminated in the **urine** (watery fluid that contains urea and other wastes)

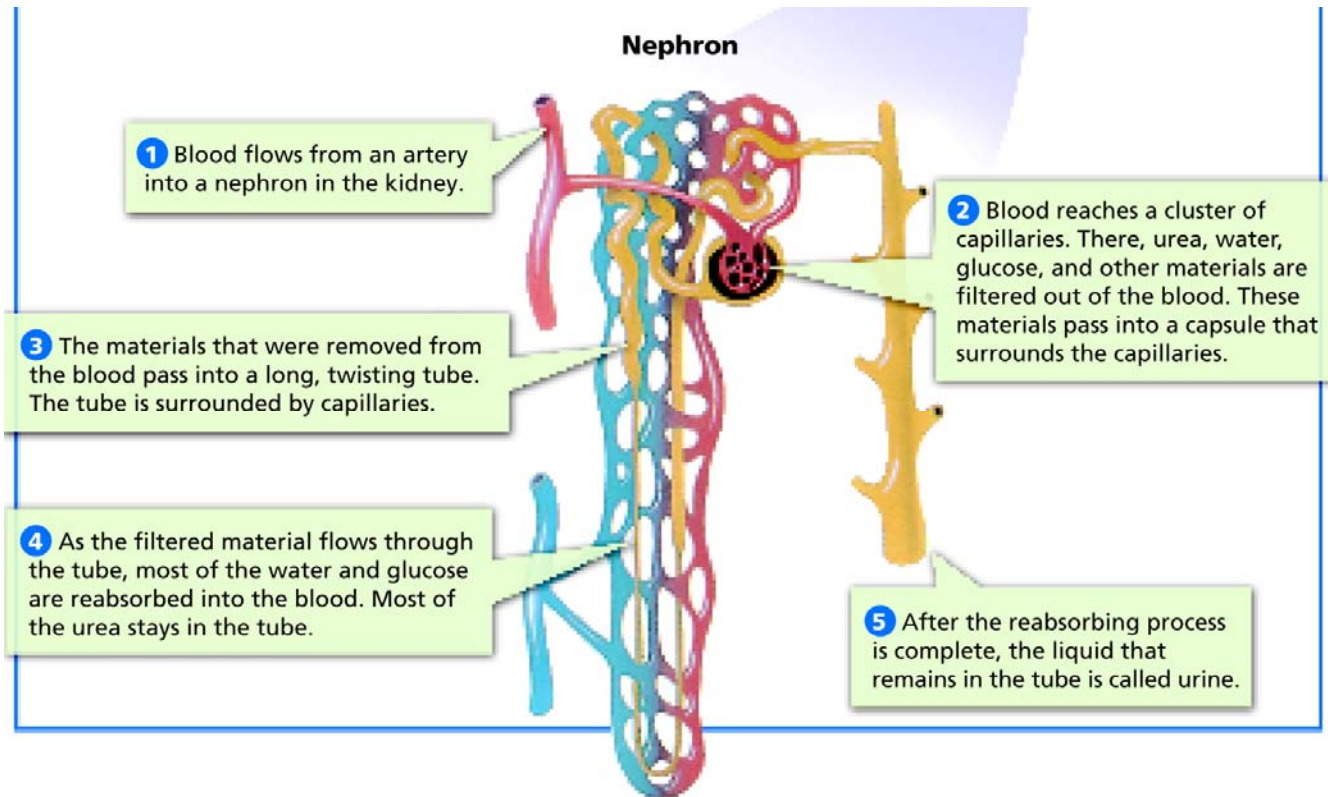
# Organs of the Excretory System

(part two)

- **Ureters:** urine flows from the kidneys through two narrow tubes
- **Urinary Bladder:** the ureters pass to the bladder, a saclike muscular organ that stores urine.
- **Urethra:** the urine leaves the body through a this small tube.



# Filtration of Wastes



[Click here to see a short video clip of how the nephron works](#)

***Have the steps below copied in your notes***

- 1. Blood flows into the kidney and into a **nephron** (tiny filtering factories)
- 2. Blood reaches a cluster of capillaries where urea, water glucose & other materials are removed
- 3. Needed materials are reabsorbed (glucose & water), but urea remains
- 4. Wastes are passed on through the urine and eliminated in urine.

# A Kidney Transplant

[Click here for a short video](#)  
[Showing a Kidney transplant](#)  
[\(it's cool!\)](#)

