



The National Orthodox School / Shmaisani

Subject: Biology

Study Sheet : Excretory system

Name:

Date:

Grade 7 – all sections

Objective : Describe the structure and function of the urinary system .

What is excretion ?

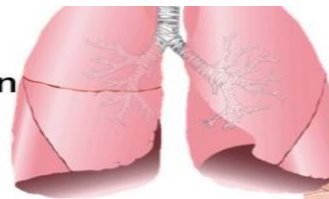
The waste products from your cells are toxic. If the amounts of these waste products build up in your body, they damage your cells and stop them working healthily. This is why it is so important that we excrete our toxic waste products, removing them from our bodies. Excretion is one of the characteristics of all living organisms.

Excretion is important to maintain homeostasis.

Homeostasis is A state of balance among all the body systems needed for the body to survive and function correctly.

What do we excrete?

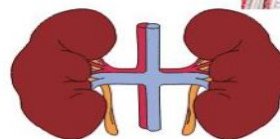
Lungs – remove carbon dioxide from the body through respiration



Skin – removes urea, salt, and excess water through sweat



Kidneys – remove urine (urea, salt, and excess water) through filtration and urination

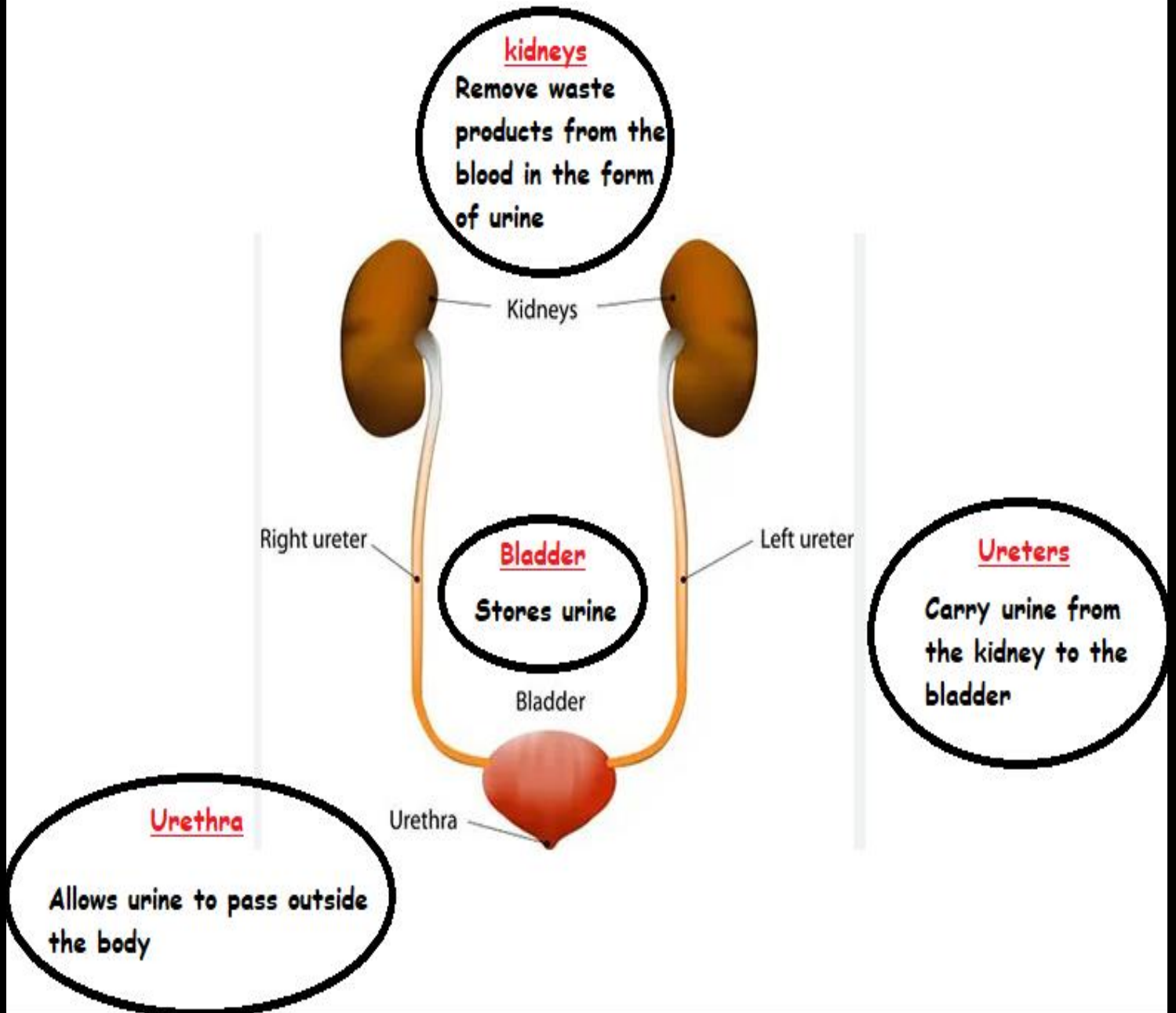


Activat



Kidneys :

Structure and function of the urinary system :



Liver :

If you eat a lot of **carbohydrates or lipids**, your body breaks them down and **stores them as fat** - but your body cannot store excess protein. When you eat more protein-rich food than you need, the **extra protein is broken down in your liver**. This gives your body some useful molecules, and the waste product **urea**.

This process is called deamination

Urea is very toxic. If the concentration of urea in your blood gets too high, it damages other organs including your brain. It can make you very ill and even kill you.

The good news is that you have special organs to remove the urea. These organs are your kidneys. ***They remove urea from your blood and pass it out of your body as part of your urine.***

Note that the liver is not an excretory organ it helps in excretion

