

Grade 5 – Assignment for week of (4/27 to 5/1)

Learning more about our body systems:

The last several weeks we learned the jobs of the digestive system, the circulatory system, and the respiratory system. These systems work together to give the cells nutrients and oxygen to make energy.

This week we will focus on the **excretory** system which helps the body get rid of the waste our body makes.

Science Vocabulary:

Excretory System:	The body system that removes waste from your body
Lungs:	Body organs that inhale or breathe in (O ₂), and exhale or breathe out (CO ₂)
Nephrons (the filter):	Tiny tubes inside the kidneys that separate waste from the blood
Kidneys:	Organs that filter waste from the blood and make urine
Ureters:	The (2) tubes that carry urine from the kidneys to the bladder
Bladder:	A bag made of muscle that holds the urine (until you go the bathroom)
Urethra:	A tube that carries urine from the bladder out of the body

Task #1:

Use words from the science vocabulary listed above, to make an **acrostic** telling about the excretory system. An acrostic uses each letter in the word to describe the word or tell a story about what you are learning. Make an acrostic for (3) vocabulary words.

An example for the word **System** might be:

- S- **S**tudents
- Y- **Y**oung and Old
- S- **S**tudy Science
- T- **T**o Learn Our
- E- **E**xcretory System
- M- **M**akes us Clean

Task #2:

Read the next page entitled, "**Keeping Blood Clean.**" Use the information from this next page and your science vocabulary to complete the following multiple choice page entitled, "**Keeping Blood Clean.**"

Try to complete the multiple choice page before checking your multiple choice answers which are listed below:

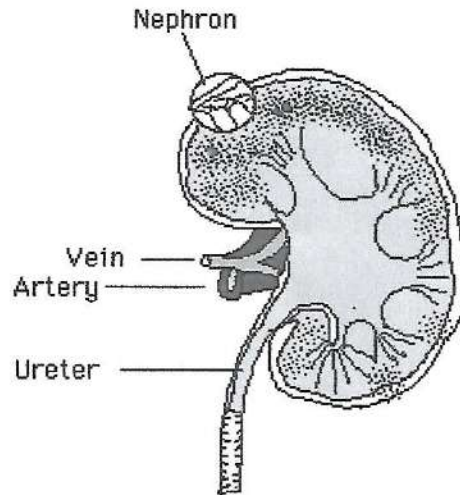
1. B (true)
2. C (2)
3. B (lungs)
4. C (urine)
5. C (ureters)
6. D (all of the above)
7. B (true)

Name _____

Keeping Blood Clean

Date _____

Can you imagine that was hurting home? Surely, whatever it took find the poison, body has a well – all the system is called **system**.



if there was a poison your family in your you would do to help your family, and get rid of it. Your system to do that as time, in fact. That the **excretory**

The main organs that get rid of wastes in your body are the lungs, kidneys, and skin. The lungs remove waste during **respiration** (or breathing). The skin removes dead cells and sweat. The kidneys remove **liquid waste**.

There are **two kidneys** in your body. They are reddish-brown and small – only about 10cm long. Each is located on one side of the spine below your ribs. They are shaped like beans.

The kidneys are a filter for the blood. Blood is pumped from the heart to the kidneys to be **cleaned**. Each kidney has about 1,000 **nephrons** that act as filters. As blood goes into a nephron, everything inside the blood like waste products, water, and food is pushed out of the blood into small tubules. The nephron tubules keep the waste products and water inside and allow everything else to go back into the blood.

The kidneys then make a liquid called **urine** to get rid of the waste. The urine leaves the kidneys through two **ureters**, or tubes, that go to the bladder. The bladder is a storage tank for urine. When you go to the bathroom, or urinate, the bladder squeezes the urine out through a tube called the urethra. All in all, each day the kidneys produce 1.5 liters of urine.



Name _____

Date _____

Keeping Blood Clean

<p>1. The kidneys remove liquid waste.</p> <p><input type="radio"/> (A) False</p> <p><input type="radio"/> (B) True</p>	<p>2. How many kidneys do humans have?</p> <p><input type="radio"/> (A) 3</p> <p><input type="radio"/> (B) 4</p> <p><input type="radio"/> (C) 2</p> <p><input type="radio"/> (D) 1</p>
<p>3. The _____ removes waste during respiration.</p> <p><input type="radio"/> (A) Large intestine</p> <p><input type="radio"/> (B) Lungs</p> <p><input type="radio"/> (C) Kidneys</p> <p><input type="radio"/> (D) Skin</p>	<p>4. The liquid waste produced by the kidneys is called _____.</p> <p><input type="radio"/> (A) Ureter</p> <p><input type="radio"/> (B) Bladder</p> <p><input type="radio"/> (C) Urine</p> <p><input type="radio"/> (D) Urethra</p>
<p>5. What tubes go from the kidneys to the bladder?</p> <p><input type="radio"/> (A) Urine</p> <p><input type="radio"/> (B) Alveoli</p> <p><input type="radio"/> (C) Ureters</p> <p><input type="radio"/> (D) Urethra</p>	<p>6. If a person's kidneys are not working, what might help?</p> <p><input type="radio"/> (A) Medicine</p> <p><input type="radio"/> (B) Dialysis</p> <p><input type="radio"/> (C) Transplant</p> <p><input type="radio"/> (D) All of the above</p>
<p>7. Kidneys help keep your blood clean.</p> <p><input type="radio"/> (A) False</p> <p><input type="radio"/> (B) True</p>	

Task #3:

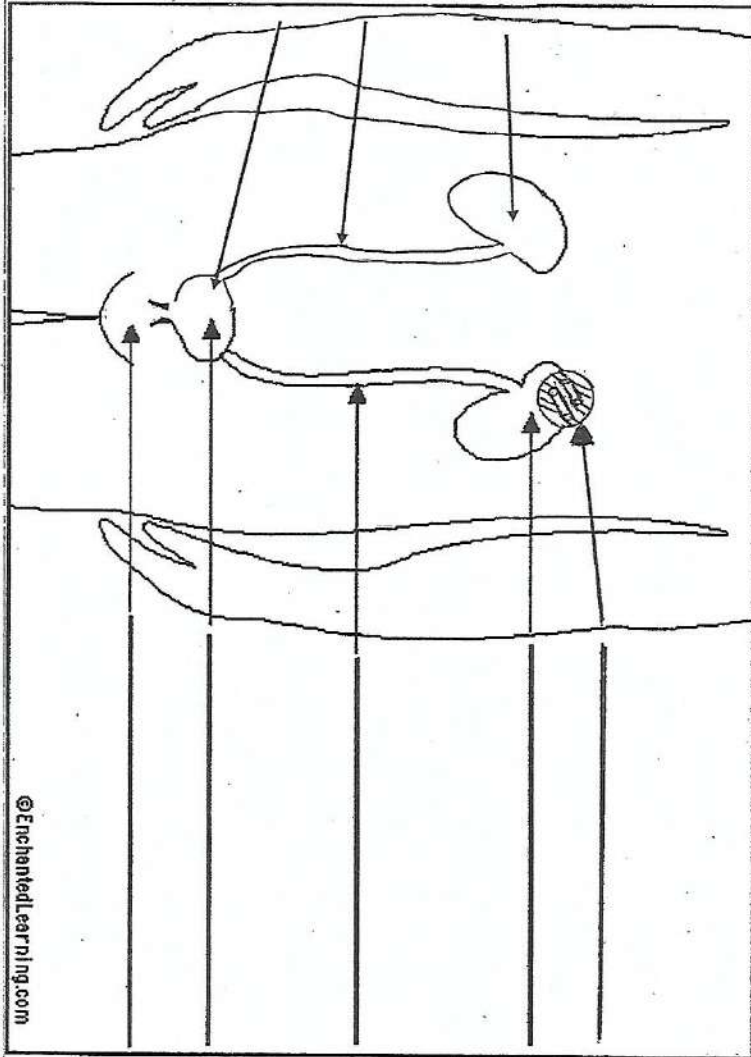
Use what you learned from the, "Keeping Blood Clean" information page and your science vocabulary to fill in the labels in the following diagram entitled, "Label the Urinary Tract."

Answers

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Read the definitions, then label the urinary tract diagram below.

Human Anatomy



- Bladder:** A hollow organ that stores urine until it is excreted.
- Kidney:** Two bean shaped organs that take waste from the blood and produce urine.
- Ureter:** Two tubes, each of which carries urine from a kidney to the bladder.
- Urethra:** The tube that carries urine from the bladder out of the body.
- Nephrons:** Small tubes inside the kidney that separate waste products from the blood.