

Inquiry Question**How can knowledge of the urinary system be demonstrated?****Name:** _____ **Date:** _____

Excretion is the important process of getting rid of the body's waste products and takes place via the excretory system. Your blood travels through your body carrying nutrients to every cell and also carries wastes away from each cell. Processes like digestion and metabolism create wastes. These wastes cannot be used by the body and getting rid of these wastes is as important as producing the things the body does need.

One of the main organs of the excretory system is the kidneys. Your kidneys have two very important jobs in your body; filtering waste from the blood and the production of urine to get rid of the waste so that it doesn't build up in our bodies.

A tube called the ureter leads from each kidney into the bladder. The bladder is a hollow muscular organ that acts as a storage tank for liquid wastes until the body is ready to eliminate it. During urination, the liquid passes from the bladder and exits the body through a hollow tube called the urethra.

You will create a project that is designed to display knowledge of the functioning urinary system.

General Instructions

The goal of this project is to find a way to demonstrate knowledge of the urinary system.

Materials you'll need:

- Internet access
- Paper, pencils
- Presentation software

Ideas and Hints:

- Project suggestions:
 - Short Term Experiments
 - Model
 - Video Games
 - Board Games
 - Books
 - Puzzles, etc.
- Be Creative! Remember a model itself will not be enough to demonstrate your understanding of the urinary system.
- Explain how the urinary system works in a diagram and/or paragraph. This could be done as the instructions part of a game, as a puzzle key, or in another way depending upon the project you decide to design.
- Terminology to be included: ureter, urethra, bladder, kidney, renal artery, renal vein, sphincter, nephron, filtrate, wastes.

Project submission:

You can either submit photos/video of your project (along with an explanation and/or steps of construction) or if you can drop-in to the school, you can present it to your teacher in-person.