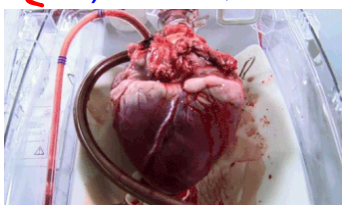
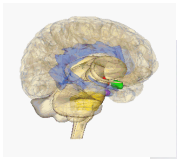
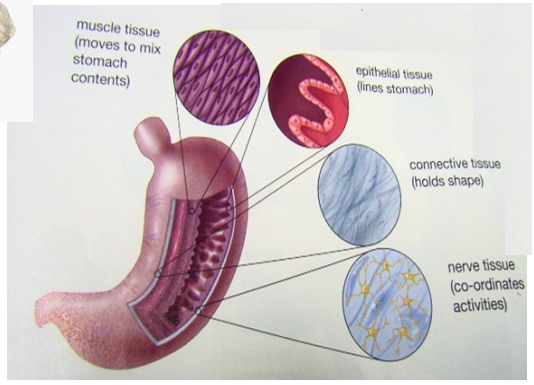
Organs - are groups of different tissues that form structures in the body that carry out particular jobs.

ex) Heart , stomach, liver, eyes, lungs, brain...

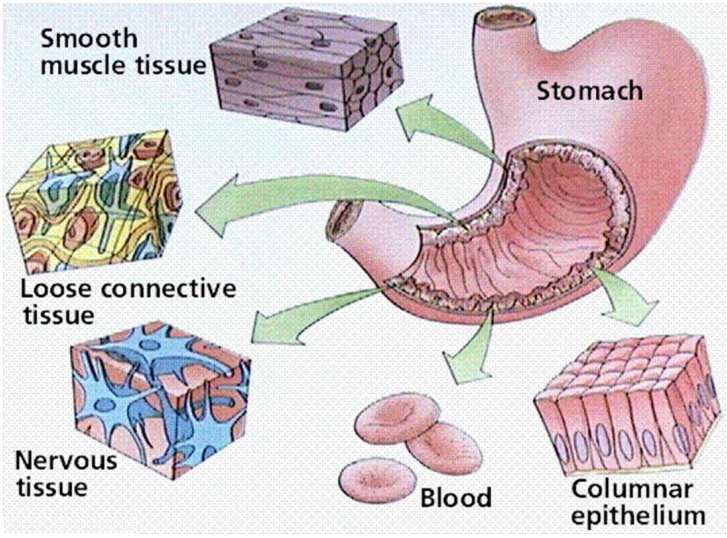







Stomach is made of 4 main tissues

(Muscle, epithelia, connective and nerve)



Find Out ACTIVITY

## Looking at Animal Tissues

The photographs below show tissues observed under a compound light microscope similar to the one you have used.

### What to Do

1. Look closely at the tissues shown in A, B, and C. The tissues are bone tissue, nerve tissue, and skeletal muscle (the kind of muscle you use, for example, to bend your arm).
2. Based on what you have read about these tissues, try to identify each type. Record your decision for each tissue.

### What Did You Find Out?

1. Which tissue did you find easiest to identify and why? (Answers are found on page 560.)
2. List three different careers in which a person might need to examine tissues. Suggest at least one way a person could use information obtained by observing tissues.



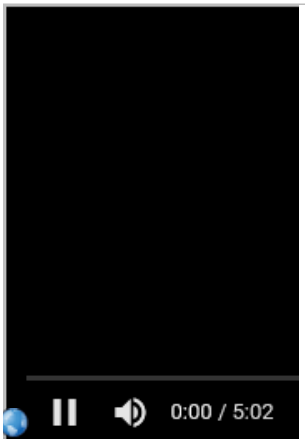

Muscle

Bone

Nerve

# Forensic Pathologist

Examine bodily fluids and tissues from dead bodies to help solve cases.




An unexpected death occurs. Is it a murder case? A common health problem? A new virus on the loose?

Those are the questions a Forensic Pathologist answers. As a Forensic Pathologist, you undertake an intensive study of those who have passed away unexpectedly.

Though you're a crucial part of a crime scene investigation team, you rarely visit the scene where the death occurred. Instead, the sole focus of a Forensic Pathologist is on examining the body in a sterile laboratory setting. And although the word "crime" is often mentioned in your line of work, not all the cases you work on relate to foul play.

Two key components of the deceased person's body hold the answers to their mysterious death: the tissue in the body and the remaining bodily fluids, like blood. You draw blood and other fluids, test the samples, and examine body tissue for signs of illness or injury. Once results from the tests return, you record the evidence and testify in court if necessary.

This job is similar to that of a Coroner or Medical Examiner, however you often focus on a more specialized area in the field and may spend your time in a lab testing bodily fluids while the Medical Examiner performs the actual autopsy.

Even if you don't do autopsies, your job is a very important one. You provide vital clues for solving criminal cases, and identifying new virus outbreaks so they can be stopped before they cause greater harm.

# Tissue: Crash Course

# Human Body's Organs

Groups of 2 ( can choose to do it alone)

See next page

Brain Storm a list of organs that are found in the human body.

Each Group will be given one organ to research.

As a minimum, each group's presentation must answer these questions.

1) What is the organ's function?

2) What is the organ's structure?

3) To which organ system does the organ belong?

4) What happens if the organ does not work properly? (Explain in detail)

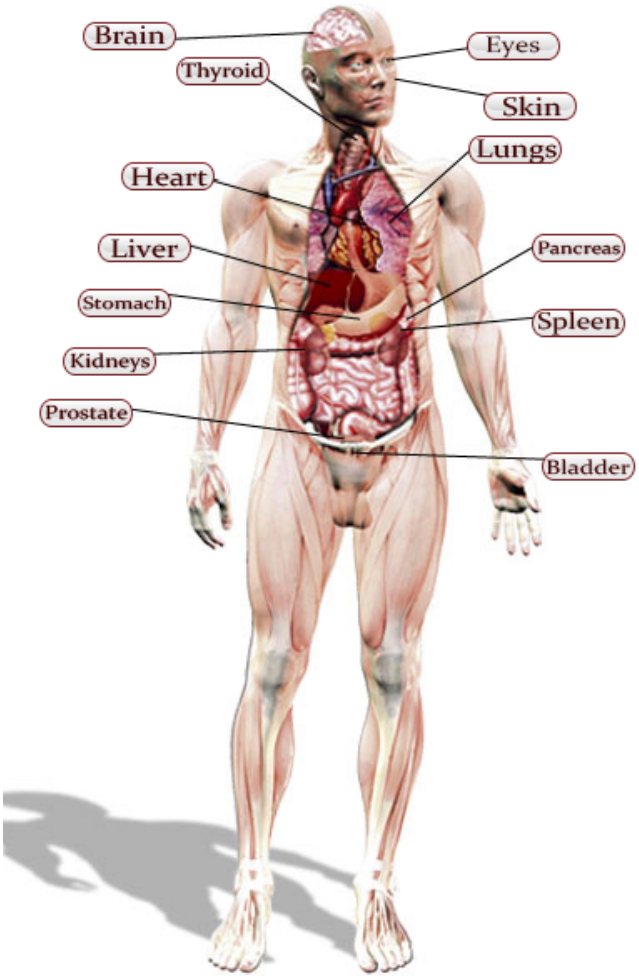
5) Can the organ be transplanted? Can it be replaces by an artificial organ? (Yes or No is not an acceptable answer...you MUST explain why)

6) Which animals have this organ? Are there some interesting differences or similarities compared with the human organ?

7) Design 5 Jeopardy type questions (Leveled from easy to hard $100 to $500)related to your project's findings.

8) Include any additional information you would like

This is to be done on Power Point or smart notebook using credible resources (Medical sites NOT Wikipedia). All sites that you use information from must be copied and pasted on it a source slide (Last page of your project make a list of all websites you visited). This must include pictures and be creative.




There are almost 78 organs in a human body which vary according to their sizes, functions or actions. An organ is a collection of millions of cells which group together to perform single functions in a our body. The cells in these body organs are highly specialized and form for all the necessary actions for some specific time. Out of these 78 organs of a male or female body, skin is the largest organ with respect to its size and weight. The major organ in the body of human beings is the brain which is primarily responsible for performing all the functions and actions of the body. Other major organs of the body are given in the following list with names, diseases, location and functions.