

THE ANATOMY GUIDE

IMPORTANT TERMINOLOGY: DEFINE THE FOLLOWING WORDS:

ANATOMY:

PHYSIOLOGY:
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**THE HUMAN BODY IS MADE UP OF 11 MAJOR BODY SYSTEMS:
THE BOXES BELOW CONTAIN THE NAMES OF SOME SYSTEMS.
LIST THE FUNCTION OF THE SYSTEM AND THE MAJOR ORGANS
FOUND IN EACH.**

CIRCULATORY SYSTEM: PURPOSE/FUNCTION:
MAJOR ORGANS (THERE ARE THREE!)

DIGESTIVE SYSTEM: PURPOSE/FUNCTION:
MAJOR ORGANS (THERE ARE NINE!)

RESPIRATORY SYSTEM:
PURPOSE/FUNCTION

MAJOR ORGANS (THERE ARE
FIVE)

EXCRETORY SYSTEM:
PURPOSE/FUNCTION:

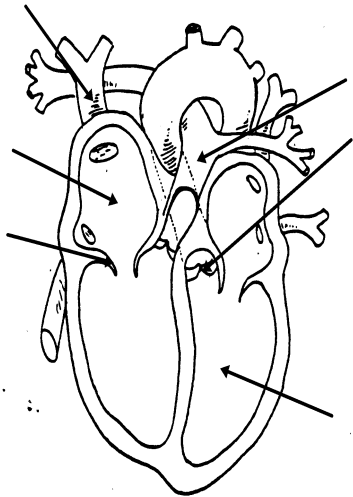
MAJOR ORGANS

NOW LET'S GET TO THE SPECIFICS!

SEVERAL OF THESE SYSTEMS NEED FURTHER INVESTIGATION. FOLLOW THE DIRECTIONS BELOW.

CIRCULATORY SYSTEM:

USING THE DIAGRAM BELOW,
NAME THE MAJOR
STRUCTURES OF THE HEART



FOLLOW THE PATH OF THE BLOOD FLOW IN THE HEART AND THE BODY. BEGIN WITH THE SUPERIOR AND INFERIOR VENA CAVAS BRINGING BLOOD RETURNING TO THE RIGHT ATRIUM FROM THE BODY.

ARTERIES USALLY CARRY WHAT TYPE OF BLOOD? (OXYGENATED OR DEOXYGENATED)

VEINS USUALLY CARRY WHAT TYPE OF BLOOD? (OXYGENATED OR DEOXYGENATED)

THE BLOOD IS MADE UP OF TWO MAJOR COMPONENTS. DESCRIBE BOTH.

1. PLASMA

2. CELLS

What are the functions of the blood? (be specific)

Define the following terms and explain their function.

1. Arteries

2. Veins

3. Capillaries

4. Venules

Explain diastolic, systolic, and blood pressure:

DIGESTIVE SYSTEM: See the back page for the diagram to fill out! *****

THERE ARE TWO TYPES OF DIGESTION THAT TAKE PLACE IN THIS SYSTEM. THEY ARE MECHANICAL AND CHEMICAL. DESCRIBE WHAT HAPPENS IN EACH.

LIST WHAT KIND OF DIGESTION TAKES PLACE IN EACH ONE OF THESE ORGANS. IF THE CHEMICALLY DIGEST FOOD, LIST WHAT FOODS AND WHAT ENZYMES ARE INVOLVED.

ORGAN	TYPE OF DIGESTION	WHAT IS CHEMICALLY DIGESTED	WHAT ENZYME AIDS IN THIS DIGESTION	IS ANYTHING ABSORBED IN THIS ORGAN?	LENGTH
MOUTH					
STOMACH					
SAMLL INTESTINES					
LARGE INTESTINES					

THERE ARE ALSO THREE ACCESSORY ORGANS IN THE DIGESTIVE SYSTEM (THE FOOD DOES NOT ACTUALLY PASS THROUGH THESE ORGANS BUT THEY ARE REQUIRED FOR DIGESTION). LIST THE FUNCTION OF THESE ORGANS.

LIVER		
PANCREAS		
GALLBLADDER		

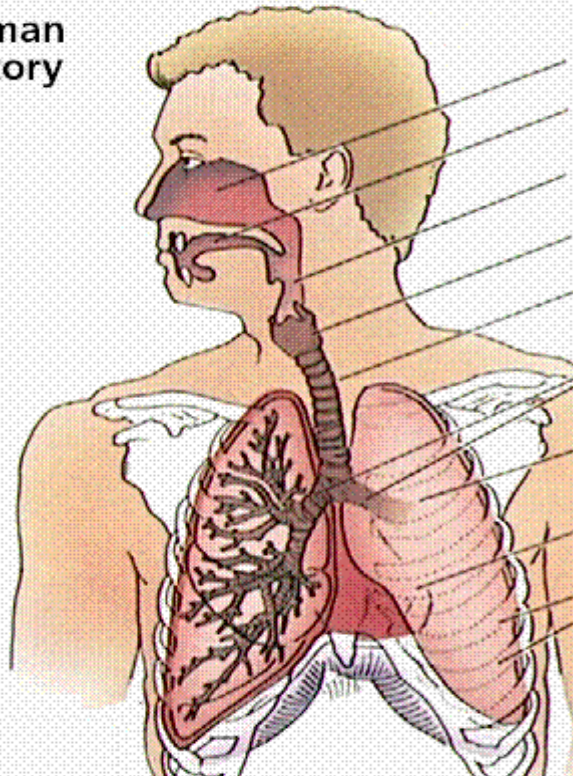
Explain Digestion vs. Absorption:

RESPIRATORY SYTEM:

BREATHING IS CONTROLLED BY A STRONG MUSCLE CALLED THE DIAPHRAM. WHERE IS THIS MUSCLE LOCATED AND WHAT DOES THE DIAPHGRAM DO WHEN YOU INHALE AND EXHALE?

1. IDENTIFY THE

**The Human
Respiratory
System**



1. Nasal Passages

2. Oral cavity

3.

4.

5.

6.

7.

8. Heart

9. Ribs

LIST IN ORDER THE MAJOR STRUCTURES THAT AIR PASSES THROUGH ON ITS WAY TO THE LUNGS.

WHAT ARE ALVEOLI AND WHAT IS THEIR FUNCTION?

EXCRETORY SYSTEM: ****Look at the back page to fill in a diagram of this system

WHAT IS THE MAJOR FUNCTION OF THIS SYSTEM?

WHAT IS A NEPHRON?

ONE MAJOR ORGAN OF THIS SYSTEM IS THE KIDNEY. DESCRIBE THE THREE MAJOR FUNCTIONS OF THE KIDNEY AND ITS STRUCTURE

THE SECOND MAJOR ORGAN OF THIS SYSTEM IS THE BLADDER. WHAT IS ITS FUNCTION?

WHAT ARE URETERS?

WHAT IS THE URETHRA?

Explain reabsorption and secretion:

What is the process of filtration?