

COURSE	7240 Health Science I		Unit A	Human body structure and function
ESSENTIAL STANDARD	2.00	B2	35%	Understand the body's use of nutrients.
OBJECTIVE	2.01	A1	4%	Remember the structures of the circulatory system.
ESSENTIAL QUESTION	<ul style="list-style-type: none"> ▪ <i>What are the structures of blood?</i> ▪ <i>What are the structures of the circulatory system?</i> 			

Unpacked Content

- I. Structures of the blood
 - A. Plasma
 1. Water
 2. Proteins
 - a. Fibrinogen
 - b. Albumin
 - c. Globulin
 3. Other components
 - a. Nutrients
 - b. Electrolytes
 - c. Hormones
 - d. Vitamins
 - e. Enzymes
 - f. Metabolic waste products
 - B. Erythrocytes
 - C. Leukocytes
 1. Agranulocytes
 2. Granulocytes
 - D. Thrombocytes
 - E. Blood types
 1. Type A
 2. Type B
 3. Type AB
 4. Type O
 - F. Rh Factors
- II. Structures of the heart
 - A. Chambers
 1. Right atrium
 2. Right ventricle
 3. Left atrium
 4. Left ventricle
 - B. Valves
 1. Tricuspid
 2. Pulmonary semilunar
 3. Mitral (bicuspid)

- 4. Aortic semilunar
- C. Layers
 - 1. Pericardium
 - 2. Myocardium
 - 3. Endocardium
- D. Major blood vessels
 - 1. Vena Cava
 - a. Superior
 - b. Inferior
 - 2. Pulmonary artery
 - 3. Pulmonary veins
- III. Vessels of the circulatory system
 - A. Vessels
 - 1. Arteries
 - a. Carotid
 - b. Brachiocephalic
 - c. Subclavian
 - d. Axillary
 - e. Brachial
 - f. Radial
 - g. Thoracic aorta
 - h. Femoral
 - i. Popliteal
 - j. Dorsalis pedis
 - 2. Veins
 - a. Jugular
 - b. Subclavian
 - c. Brachiocephalic
 - d. Axillary
 - e. Brachial
 - f. Radial
 - g. Superior vena cava
 - h. Inferior vena cava
 - i. Great saphenous
 - j. Femoral
 - k. Popliteal
 - l. Dorsalis venous arch
 - 3. Capillaries
 - B. Pulse sites
 - 1. Temporal
 - 2. Carotid
 - 3. Brachial
 - 4. Radial
 - 5. Femoral
 - 6. Popliteal
 - 7. Dorsalis pedis

2.01 Structures of the blood Handout

Name _____
Date _____

Directions: Complete the handout while viewing the PowerPoint presentation.
Record any class discussion on the back of your paper, if necessary.

Introduction to blood		
Plasma	Plasma Proteins	Other structures
Structure	Description	Relevance to my health
Erythrocytes		
Leukocytes		
Agranulocytes		
Granulocytes		
Thrombocytes		
Blood types		

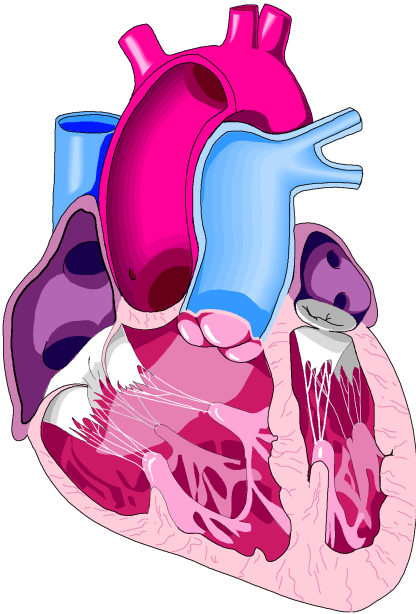
2.01 Structures of the heart

Name _____

Handout

Date _____

Directions: Complete the handout while viewing the PowerPoint presentation. Label the structures of the heart. Record notes and class discussion.

Structure	Description
Heart	
Chambers	
Valves	
Conduction system	
Relevance to my health	

2.01 Arteries and Veins
Handout

Name _____
Date _____

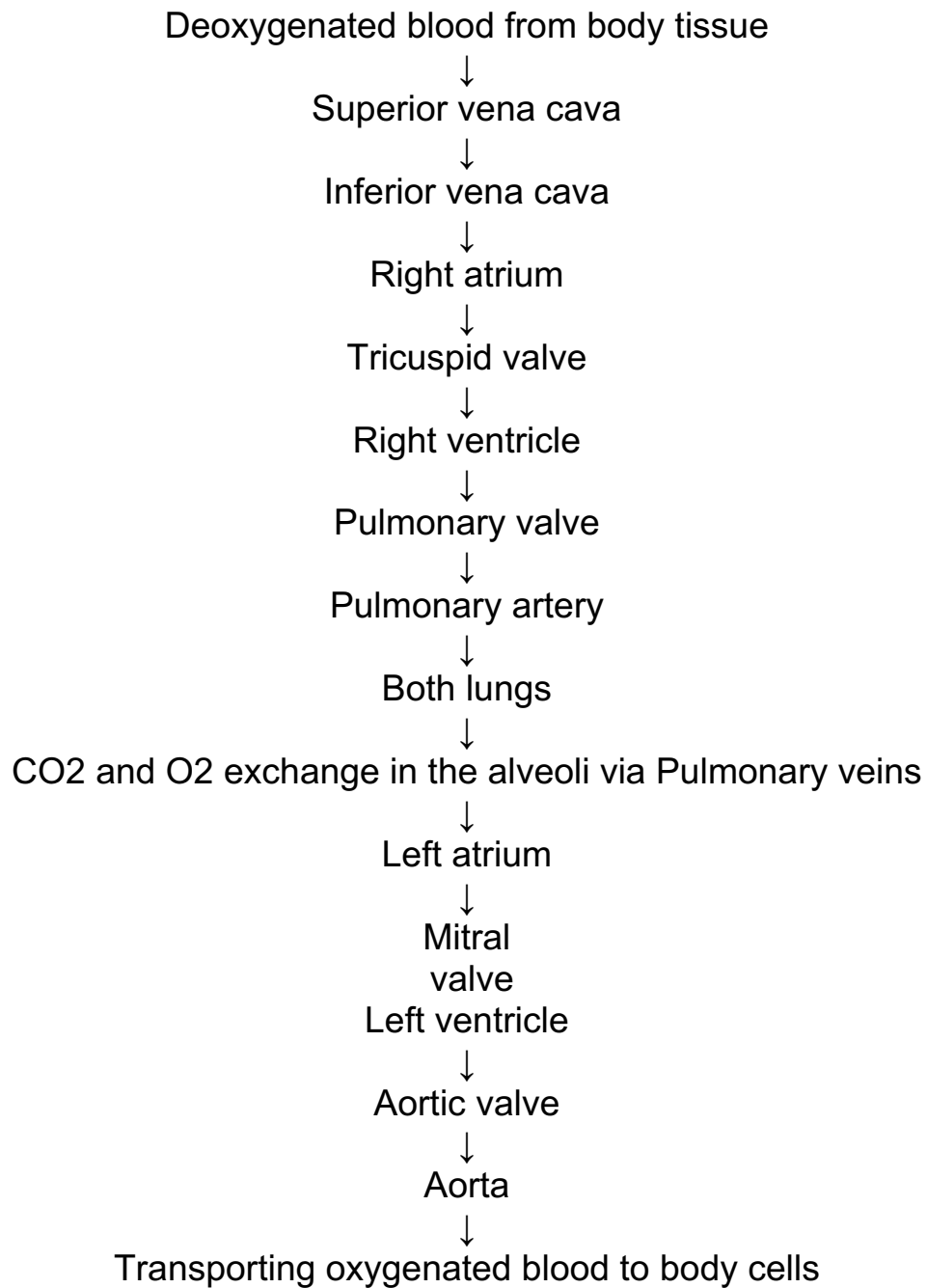
Directions: Complete the handout while viewing the PowerPoint presentation. Record notes and class discussion.

Arteries	Veins	Capillaries
Description	Description	Description
Names of major arteries	Names of major veins	

2.01 The flow of blood through the body Handout

Name _____
Date _____

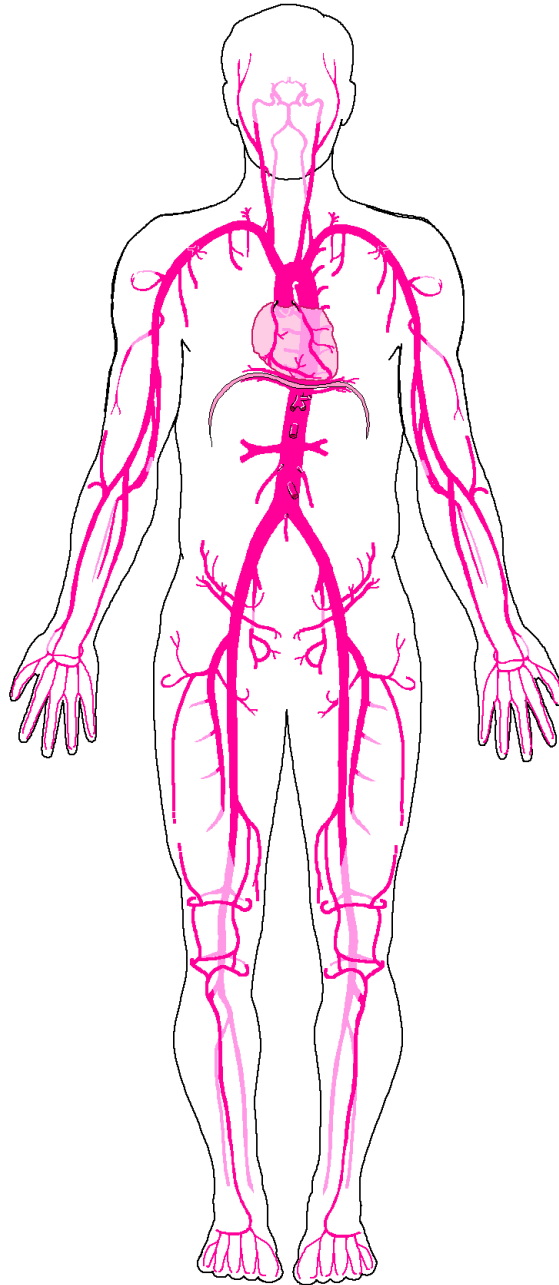
Directions: Use this handout as a study guide. Be prepared to identify the structures and explain the flow of blood through the body.



2.01 Pulse Sites Handout

Name _____
Date _____

Directions: Use this handout to label the pulse sites along with the Power Point presentation. Record the class discussion on the back of the handout.



2.02 The Circulatory System: Who Am I?
Handout

Name _____
Date _____

Directions: Answer the following riddles, using the arteries from the list. Write the response in the blank provide.

Brachial
Celiac
Common iliac

External carotid
Femoral
Internal carotid

Radial
Vertebral

Popliteal
Dorsal pedalis

1. I run up and down the back
bringing blood to the central nervous system track.
I am the _____
2. You feel me often at your wrist,
running or jumping gives my numbers a lift.
I am the _____
3. I struggle to get to all the parts of the brain,
where intelligence and coordination reign.
I am the _____
4. I run down and through the upper bone, get cuffed around, please leave
me alone! I am the _____
5. They call me common, I go from place to place; I branch the legs and into
the pelvic space. I am the _____
6. I am really at the end of the line. My companion vein has an upward climb.
I am the _____
7. If you reach down behind your knee, check around and you are sure to
feel me. I am the _____
8. When you get embarrassed and your face turns red, my vessels have
dilated, up to the hair roots on your head.
I am the _____
9. I am hungry for nutrients from the food intake; I am now undecided, which
of the four roads should I take? I am the _____
10. I sometimes get plugged and blood does not get through; the legs and the
feet do not know what to do. I am the _____

2.01 Medical Terminology Handout

Name: _____
Date: _____

Directions: Review the circulatory system terms and definitions listed below. Use these terms to write “new” compound words in the spaces below. Check your work in your textbook or a dictionary to verify the compound words and the definition of each one.

Medical Term	Definition
angio-	blood vessel
arterio-	artery
cardio-	heart
-cyte	cell
electro-	electric
erythro-	red
-gram	tracing, recording
hemo-	blood
leuko-	white
-orrhagia	hemorrhage
-penia	deficiency
phleb-	vein
-sclerosis	hardening
tachy-	fast
thrombo-	clot

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____