

### Introduction to Chapter 37

Many of the terms used to describe parts of the circulatory and respiratory systems have common scientific prefixes and suffixes.

Using your prefix/suffix list, look at the underlined portions of the vocabulary words below, then try to match the word with its definition below.

1. Pulmonary 2. Circulatory 3. Cardiovascular 4. Bronchus 5. Diaphragm (Greek)  
6. Epiglottis 7. Hemoglobin 8. Trachea 9. Ventricle 10. Capillary

\_\_\_\_\_ muscular wall below rib cage that separates the abdomen from the area around the lungs

\_\_\_\_\_ tiny, hair-like blood vessel

\_\_\_\_\_ a tube through which air moves

\_\_\_\_\_ a type of organ system that carries blood, nutrients and oxygen around the body

\_\_\_\_\_ an iron-containing protein in red blood cells that combines with oxygen and transports it from the lungs to body tissues

\_\_\_\_\_ passageway leading from trachea to lungs

\_\_\_\_\_ either of the two lower chambers of the heart that receive blood from the upper chambers and pump it into the arteries

\_\_\_\_\_ a flap of tissue found at the base of the tongue that covers the opening to the air passages when we swallow, preventing food or liquids from entering the windpipe

\_\_\_\_\_ relating to both the heart and the blood vessels; may be used instead of "circulatory" in the term "circulatory system"

\_\_\_\_\_ type of circulation between the heart and the lungs

### **HAVE A HEART - JUST FOR FUN**

In art, poetry, song, literature, and everyday life, the heart is an image of love. It has many other associations, as well. Below are a few examples. Do you know what they mean? Write your answer in the space provided.

1. have a heart

2. change of heart

3. to know something by heart

4. broken heart

8. wear your heart on your sleeve

Why do you think the heart produces this kind of association? Can you think of other expressions like those above?

### WORD SEARCH

The following words can be found in the word search below. The letters may be arranged horizontally, vertically, diagonally, or backwards.

alveoli artery blood circulatory diaphragm fibrin heart hemoglobin lungs  
oxygen plasma platelet pulse respiratory trachea vein

Q	Z	B	T	R	A	C	H	E	A	K	L	R	W	M
Y	N	G	D	L	W	X	A	P	R	B	Z	Q	M	G
R	H	R	D	Z	C	Q	L	V	T	K	P	D	Y	A
O	E	S	Q	X	P	D	V	B	E	R	W	Q	Z	R
T	M	S	F	H	Z	Y	E	L	R	G	K	L	N	H
A	O	T	P	K	J	X	O	O	Y	L	X	J	M	P
L	G	V	E	I	N	Z	L	O	W	Q	U	V	Z	A
U	L	Q	Z	W	R	H	I	D	X	H	J	N	X	I
C	O	T	D	M	Y	A	L	G	D	L	W	Q	G	D
R	B	P	W	X	A	L	T	Q	E	S	L	U	P	S
I	I	Y	T	T	M	P	Y	O	H	Y	J	W	V	Z
C	N	X	J	R	S	Z	W	G	R	M	X	V	Q	P
X	Z	H	K	Y	A	M	N	O	X	Y	G	E	N	J
P	L	A	T	E	L	E	T	W	R	Z	X	H	K	Q
K	R	Q	W	Z	P	T	H	X	F	I	B	R	I	N