

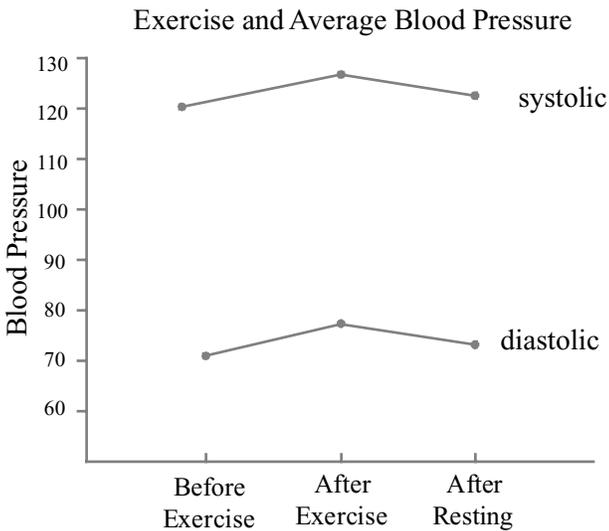
# BLM Answers

## BLM 10-1 How Breathing Works

3. the lungs
4. a) Diaphragm moves up.  
b) Diaphragm moves down.

## BLM 10-2 Exercise and Blood Pressure

1. a) 121.4/72.4    b) 126.2/74.4    c) 122.6/72.8
2. The graph should be titled and labelled, and there should be a scale. For example,



## BLM 10-4 Word Search

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

1. o) veins
2. m) systolic
3. p) windpipe
4. l) respiratory
5. e) exhale

6. i) lungs
7. b) circulatory
8. h) inhale
9. d) diastolic
10. a) arteries
11. c) diaphragm
12. g) heart rate
13. k) pressure
14. f) heart

## BLM 10-5 The Digestive System

Wording will vary. For example:

Organs	Processes
a) mouth	<ul style="list-style-type: none"> <li>• mechanical — teeth break up food</li> <li>• chemical — chemicals break food down</li> </ul>
b) esophagus	
c) stomach	<ul style="list-style-type: none"> <li>• mechanical — stomach muscles mix food</li> <li>• chemical — chemicals break food down</li> </ul>
d) large intestine	<ul style="list-style-type: none"> <li>• absorption — nutrients move into blood</li> </ul>
e) small intestine	<ul style="list-style-type: none"> <li>• chemical — chemicals digest food</li> <li>• absorption — nutrients move into blood</li> </ul>
f) anus	

## BLM 10-6 Word Puzzle

Across

1. chemical
6. bacteria
8. enzymes
10. anus
12. small intestine
14. alveoli
15. stomach
16. villi

Down

2. large intestine
3. mechanical
4. food poisoning
5. hazardous
7. absorption
9. nutrients
11. capillaries
13. esophagus

**BLM 10–7 Chapter 10 Practice Test**

1. cell, tissue, organ, system
2. c) veins
3. h) blood pressure
4. g) heart rate
5. b) heart
6. d) lungs
7. e) capillaries
8. a) arteries
9. f) diaphragm
10. a), b), and c) mechanical digestion, chemical digestion, absorption
11. a) circulatory system  
b) respiratory system  
c) digestive system
12. Wording will vary but should include the following points for a) and b).
  - a) Oxygen passes through the membrane of the alveolus and the membrane of the capillary into the blood. The blood delivers oxygen to body cells.
  - b) Carbon dioxide moves from the blood via the capillary into the alveolus. We breathe out the carbon dioxide.
  - c) capillary
  - d) alveolus
  - e) carbon dioxide
  - f) oxygen
13. Accept any reasonable health and safety practice related to the following jobs. For example:
  - a) Janitor — Wear a mask to avoid breathing in fumes from cleaning products. Wear protective gloves when handling hazardous cleaning products.
  - b) Graffiti painter — Wear gloves, coveralls, and a mask. Change the filters on the mask often. Read the labels on spray cans to find less toxic paints.

**BLM 10–8 Chapter 10 Test**

1. cell, tissue, organ, system
2. c) capillaries
3. h) heart
4. d) alveoli
5. f) veins
6. b) lungs
7. g) arteries
8. a) heart rate
9. e) blood pressure
10. a), b), and c) mechanical digestion, chemical digestion, absorption
11. a) respiratory system  
b) digestive system  
c) circulatory system
12. Wording will vary but should include the following points for a) and b).
  - a) Oxygen passes through the membrane of the alveolus and the membrane of the capillary into the blood. The blood delivers oxygen to body cells.
  - b) Carbon dioxide moves from the blood via the capillary into the alveolus. We breathe out the carbon dioxide.
  - c) capillary
  - d) alveolus
  - e) carbon dioxide
  - f) oxygen
13. Accept any reasonable health and safety practice related to the following jobs. For example:
  - a) Car mechanic — Wear a mask, gloves, and protective clothing. Work in an area with adequate ventilation.
  - b) Hair dresser — Wear a mask and gloves when handling hair dye and other chemical products.