

Lesson 3: HUMAN ANATOMY

LEARNING ACTIVIT	Y 1: COMPONENTS OF THE CARDIOVASCULAR SYSTEM
1	
LEARNING ACTIVIT	Y 2: THE BREATHING PROCESS
1	
2	
LEARNING ACTIVIT	Y 3: REGIONS OF THE DIGESTIVE SYSTEM
	1 3. REGIONS OF THE DIGESTIVE STOTEM
Pharynx Mouth	
Large intestine	
Esophagus	
Stomach	
Small intestine	
I FARNING ACTIVIT	Y 4: THE DIGESTIVE SYSTEM AT WORK
	THE DIGLOTTE OF OTELLITY! WORK
0	

LEARNING ACTIVITY 5: JO	INTS AND THEIR CORRESPONDING ACTIONS
1	2
1	
1	
1	
1	2
LEARNING ACTIVITY 6: MO	OVEMENT TERMINOLOGY
1	
2	
3	
4	
5	
6	
7	
8	
9	
LEADNING ACTIVITY 7 CO	AMPONENTS AND FUNCTIONS OF THE MEDVOUS SYSTEM
	DMPONENTS AND FUNCTIONS OF THE NERVOUS SYSTEM
0	
LEARNING ACTIVITY 8: AN	NATOMICAL STRUCTURE OF NEURONS
1	
2	
3	
4	
5	
	ECEPTORS OF THE NERVOUS SYSTEM
Gogli Tendon Organs	
Muscle Spindles	
Λ	

LEARNING ACTIVITY 10: MUSCLE-FIBER TYPES

- 1. **Type I**: Slow-twitch; small amount of mitochondria; fatigue-resistant; used during anaerobic metabolism; used during sports such as cross-country running
- 2. **Type IIx**: Fast-twitch; also known as fast-glycolytic; small amount of mitochondria; less resistant to fatigue than type I fibers; largest and fastest fibers; limited capacity for aerobic metabolism
- 3. **Type IIa**: Fast-twitch; can be trained to be more oxidative or glycolytic; can only sustain activity for less than 30 seconds

LEARNING ACTIVITY 11: THE ROLE OF CONNECTIVE TISSUE	
1	
2	
3	
4	
5	
6	
LEARNING ACTIVITY 12: THE SHOULDER GIRDLE IN ACTION	
1	
2	
3	
4	
5	
6	
LEARNING ACTIVITY 13: THE SHOULDER COMPLEX 1	
2	
3	
4	
LEARNING ACTIVITY 14: FOREARM AND ELBOW MUSCLES	
1	
2	
3	
4	
LEARNING ACTIVITY 15: TRUNK MUSCLES AT WORK	
1	
2	
3	
4	

LEARNING ACTIVITY 16: HIP MUSCLES AND THEIR ACTIONS

1.	Gluteus maximus: Extension, external rotation, adduction
2.	Gracilis: External rotation, adduction, flexion
3.	Rectus femoris: Abduction, flexion, internal rotation
4.	Tensor fasciae latae: Flexion, abduction, internal rotation
5.	Pectineus: Flexion, adduction, external rotation
6.	Biceps femoris: Extension, abduction, adduction, external rotation
7.	Semitendinosus: Extension, adduction, slight internal rotation
8.	Piriformis: Adduction, flexion, external rotation
LE <i>P</i>	ARNING ACTIVITY 17: THE KNEE JOINT
1	
2	
3	
4	
	ARNING ACTIVITY 18: THE ANKLE AND FOOT
₹	
I F A	ARNING ACTIVITY 19: HORMONES AND THIER FUNCTIONS



Lesson 4: EXERCISE PHYSIOLOGY

LEARNING ACTIVITY 1: CONCEPTS OF PHYSICAL FITNESS
1
2
3
4
5
LEARNING ACTIVITY 2: PHYSIOLOGY OF THE CARDIORESPIRATROY SYSTEM
1
2
3
4
LEARNING ACTIVITY 3: ENERGY SYSTEMS
1
2
3
4
5
6

ARNING ACTIVITY 5: ACUTE AND CHRONIC RESPONSES TO A	EROBIC EXERCISE
ARNING ACTIVITY 6: HORMONAL RESPONSES TO EXERCISE	
ARNING ACTIVITY 7: ENVIRONMENTAL CONSIDERATIONS WH	EN EXERCISING
	EN EXERCISING
	EN EXERCISING
ARNING ACTIVITY 7: ENVIRONMENTAL CONSIDERATIONS WH	EN EXERCISING
	EN EXERCISING



Lesson 5: FUNDAMENTALS OF APPLIED KINESIOLOGY

LE/	ARNING ACTIVITY 1: PHYSICS AND HUMAN MOVEMENT
1.	
_	
_	
_	
2	
-	
-	
_	
3	
_	
_	
_	
_	
Л	
4	
_	
_	
_	
/	ADMINIO ACTIVITY O THE DALANCED AND MOVING DODY
	ARNING ACTIVITY 2: THE BALANCED AND MOVING BODY
4	

LEARNING ACTIVITY 3: EVALUATING MOVEMENTS OF THE HIP	
1	
2	
3	
LEARNING ACTIVITY 4: EVALUATING MOVEMENTS OF THE KNEE	
1	
2	
LEARNING ACTIVITY 5: EVALUATING MOVEMENTS OF THE ANKLE	
1	
2	
LEARNING ACTIVITY 6: REVIEW OF THE LOWER EXTREMITY	
1	
2	
3	
4	
5	
6	
LEARNING ACTIVITY 7: RESTORE THE CORE	
1	
2.	
3.	
4	
5.	
0.	
LEADNING ACTIVITY OF THE CHOIL BET COLOR BY THE COLOR	
LEARNING ACTIVITY 8: THE SHOULDER COMPLEX IN ACTION	
1	
2	
3.————	
4	
5.	
C	

LEARNING ACTIVITY 9: SPECIAL POPULATIONS



Lesson 6: NUTRITION

LEARNING ACTIVITY 1: NUTRIENTS
1
2
3
4
5
6.
7
1
LEARNING ACTIVITY 2: FEDERAL GUIDELINES
1
2
3
4
LEARNING ACTIVITY 3: FOOD LABELS
1
3
5. —
LEARNING ACTIVITY 4: DETERMINING RMR
Annuar
Answer:

EARNING ACTIVITY 5: WEIGHT-LOSS STRATEGIES	
EARNING ACTIVITY 6: NUTRIENTS AND EXERCISE	
,	
,	
EARNING ACTIVITY 7: NUTRITION AND SPECIAL POPULATIONS	
EARNING ACTIVITY 8: SCOPE OF PRACTICE	
)	
3.	
4.	



Lesson 7: PHYSIOLOGY OF TRAINING

LEARNING ACTIVITY 1: ACUTE RESPONSES TO EXERCISE	
1	
2.	
3	
4	
5	
6.	
0	
LEARNING ACTIVITY 2: FUEL SOURCES	
1	
2	
3	
4	
LEARNING ACTIVITY 4: CHANGES IN THE CARDIORESPIRATORY SYSTEM	
1	
2	
3	
4	

LEARNING ACTIVITY 5: TRAINING PRINCIPLES	
1	
2	
3	
4	
LEARNING ACTIVITY 6: MUSCULAR ADAPTATIONS	
1.	Increase in the number of actin and myosin filaments
2.	Decrease in the levels of the sarcoplasm
3.	Increase in the amount of lactate that is produced
4.	Increase in the body's ability to buffer lactic acid
5.	Increase in the levels of testosterone and growth hormone
6.	Decrease in the production of new muscle fibers
7.	Increase in the utilization of type I fibers
8.	Increase in neuromuscular adaptations
LEARNING ACTIVITY 7: STRETCHING TECHNIQUES 1	
5	