

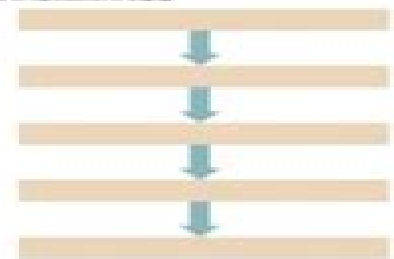
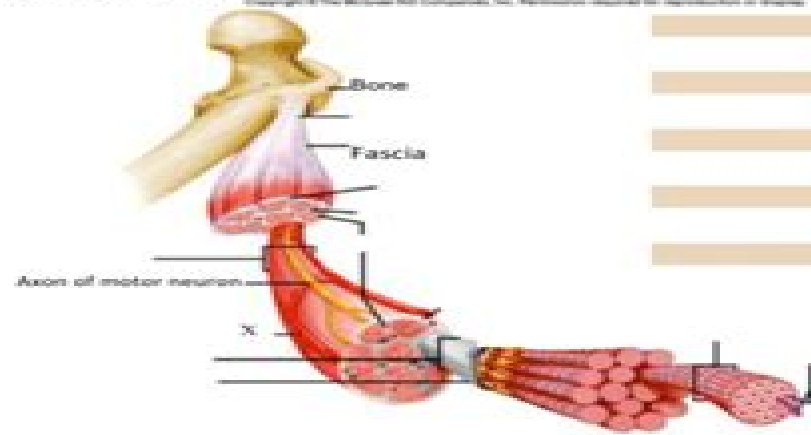
Muscular System Study Guide

1. Label the diagram to the right with: *fascicle*, *tendon*, *muscle fiber*, *endomysium*, *epimysium*, *perimysium*.

2. Place the following words in order from largest to smallest: *fascicle*, *myofilament*, *myofibril*, *myofiber (muscle cell)*, *sarcomere*

3. List the 5 functions of the muscular system

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____

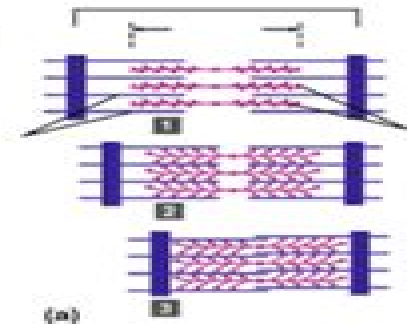


4. Label the following: *sarcomere*, *myosin*, and *actin* on the figure to the right.

5. Thick filament fibers in myofibrils are _____ while thin filaments are called _____.

6. For each step in the diagram describe the state of contraction for the sarcomere.

- a) Sarcomere is _____
- b) Sarcomere is beginning to _____
 - _____ slides toward the center, as it is pulled by the _____ crossbridges
- c) Sarcomere is _____



7. _____ is the neurotransmitter that is released to stimulate the muscle.

8. What two ions are exchanged when the neurotransmitter opens the gates on the membrane of the muscle fiber? _____ & _____

9. What ion is stored by the sarcoplasmic reticulum and starts muscle contraction? _____

10. Place the following steps in order of how a muscle contracts

- a) neuron releases a neurotransmitter to stimulate the muscle
- b) myosin heads attach to the actin filaments
- c) ATP is converted to ADP when the myosin head change shape pulling the actin filament
- d) Myosin heads pull the actin filament together
- e) Sarcoplasmic reticulum release calcium ions

11. Describe the sliding filament theory of muscle contraction.

Muscular System Study Guide With Color

**W. Hogin McMurtrie, Hogin
McMurtrie, James E. Rikel**



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The Coloring Review Guide to Human Anatomy W. Hogin McMurtrie, Hogin McMurtrie, James E. Rikel, 1989-10 *The Muscular System Manual* Joseph E. Muscolino, 2005 A full color atlas of the muscles of the human body this text provides in depth coverage of skeletal muscles An easy to understand format organizes the material by body region moving from head to extremities For each region there is an overview of the muscles of the region as a whole with information on how muscles in that region function together and large drawings of the muscles of that entire region Then each particular muscle in that region is described with name the origin of that name Greek and Latin derivations pronunciation attachments actions a drawing with an arrow showing the muscle's line of pull innervation to two levels of detail and arterial supply to two levels of detail That overview is followed by a practical step by step guide to palpating that muscle a group muscle illustration to show the muscle's anatomical relationship to nearby muscles the methodology for learning muscle actions and clinically useful information for that muscle Instructor's resources available

The Massage Connection Kalyani Premkumar, 2004 This textbook is focused on the anatomy and physiology needs of massage therapy students and practitioners It gives extensive coverage of the major body systems

integumentary skeletal muscular and nervous crucial for massage therapy It also provides an overview of other body systems so students have a well rounded understanding of anatomy and physiology Midwest Core Media Collection for Secondary Schools Lucy Gregor Brown,1975 *A Practical guide for making post-mortem examinations, and for the study of morbid anatomy* Amos Russell Thomas,1873 **Student Study Guide to Accompany Human Biology** Sylvia S. Mader,2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis A Laboratory Manual and Study Guide for Anatomy and Physiology Kenneth G. Neal,1983 **Films and Other Materials for Projection** Library of Congress,1978 **Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease** Barbara Janson Cohen,Memmler,1996 **Resources for Learning** Roderick McDaniel,1971 The National Union Catalog Library of Congress,1958 Constitutes the quinquennial cumulation of the National union catalog Motion pictures and filmstrips National Union Catalog ,1973 Includes entries for maps and atlases Student Workbook for Phlebotomy Essentials Ruth McCall,2019-08-29 An invaluable companion to Phlebotomy Essentials seventh edition this Student Workbook helps you quickly master the principles of phlebotomy and apply them in practice The workbook offers a broad variety of revised and updated exercises and tools that make it engaging and easy to master all the key concepts and procedures covered in the companion textbook Moreover it enhances your critical thinking skills preparing you to successfully manage all the challenges you may face on the job as a professional phlebotomist This edition features knowledge building activities enabling every type of learner to easily master all aspects of phlebotomy practice *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress,1968 **Learning Guide for Tortora, Introduction to the Human Body, Third Edition** Kathleen S. Prezbindowski,1994 Home Economics Maria Parloa,1898 **School Library Journal** ,1992 **The American School Board Journal** William George Bruce,William Conrad Bruce,1895

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https://crm.allthingsbusiness.co.uk/data/scholarship/Documents/Phonics_Practice_Pumpkin_Spice_Near_Me.pdf

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