

Muscular System Tour

Name _____ Hour _____

Muscular System

There are more than _____ muscles in the Human Body!!

Muscles are:

Needed for _____

Needed for _____

Needed for _____

Needed for _____

Needed for _____

Answer these questions by reading the following pages:

Skeletal Muscle

➤ Move your bones.

➤ Voluntary (_____)

➤ Over _____

➤ Long _____

➤ Stripes _____

Did you see cardiac muscle under the microscope?

Cardiac Muscle

➤ The muscle of the heart.

➤ Involuntary (_____)

➤ Works _____

➤ Strongest _____

➤ Only _____

➤ Some _____

Did you see cardiac muscle under the microscope?

Smooth Muscle

➤ The muscle of _____

➤ Involuntary (_____)

➤ Contract _____

➤ Can remain _____

➤ Usually _____

➤ No stripes (striations)

3 Types of Muscle

Identify the three types of muscle from the diagram:



Muscle



Muscle



Muscle

Anatomy of a Muscle

Identify:

Bone

Tendon

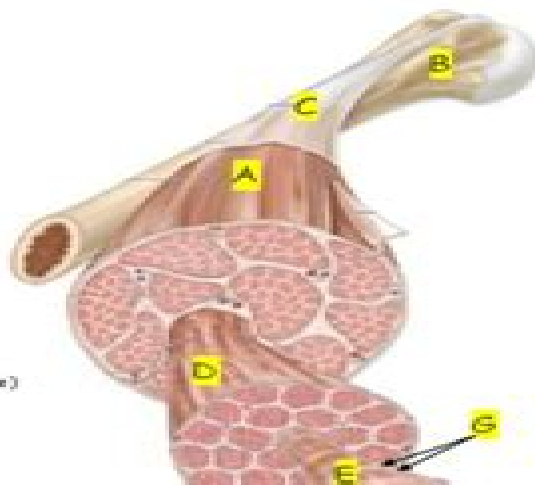
Myofibril

Cell Nuclei

Fascicle

Body of Muscle

Muscle Fiber



Which of these (above) is the muscle cell?

How a Muscle Works

- A skeletal muscle works by _____
- The muscle can shorten as much as _____
- Each muscle cell is made up of smaller _____
- The _____ are in contact with a nerve ending.
- The nerve releases a chemical called a _____
- The _____ stimulates the entire muscle to contract.

Identify:

Fascicle

Myofibril Relaxed

Muscle Cell

Myofibril Contracted



Muscle to Tendon to Bone

Tendons attach _____ to _____



Opposites Contract ... and relax

Muscular System Tour Key

Nick Draper, Helen Marshall

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Muscular System Tour Key:

Instructors Resource Guide Elaine N. Marieb, Barbara Stewart, 2001-11-02 **Teaching Elementary Science**

William K. Esler, Mary K. Esler, 2001 Grade level 1 2 3 4 5 6 7 e p i t **Sport and Physical Education: The Key Concepts**

Tim Chandler, Mike Cronin, 2002-09-11 First published in 2002 Routledge is an imprint of Taylor Francis an informa company

Exercise Physiology Nick Draper, Helen Marshall, 2014-12-05 Exercise Physiology for Health and Sports Performance

brings together all the essential human anatomy and applied physiology that students of exercise science physical education and sports coaching need to know Written in a friendly accessible style and containing a wide range of features to help develop understanding this book provides a complete one stop shop for exercise physiology The book is split into two key parts Part One introduces the fundamental principles of nutrition biochemistry cell biology and the energy systems Part Two builds on this foundation by applying the theory to exercise and sports performance in practice With this innovative approach the text enables you to become confident in your knowledge and understanding of energy generation and training principles for all sports Including coverage of exercise in extreme environments and applications of physical activity for health this will be the only exercise physiology textbook you will need

Anatomy and Physiology for the Manual Therapies Andrew Kuntzman, Gerard J. Tortora, 2009-08-17 Anatomy Physiology for the Manual Therapies 1e is designed to meet the specific needs of students preparing for careers in the manual therapies such as massage therapy and careers as physical therapy assistants This book provides the most appropriate depth of coverage for each body system in both narrative and visuals and by including relevant applications linking the content to situations they will face in their careers *30-Second Anatomy* Gabrielle M Finn, Judith Barbaro-Brown, Claire France Smith, 2013-07-01 The 50 most important structures and systems in the human body each explained in half a minute The bestselling 30 Second series offers a new approach to learning about those subjects you feel you should really understand Every title takes a popular topic and dissects it into the 50 most significant ideas at its heart Each idea no matter how complex is explained using a mere two pages 300 words and one picture all easily digested in only half a minute 30 Second Anatomy offers you an instant diagnosis of how your body works Whether youre a medical student an artist a body worker or simply want to know what your doctor is talking about when he mentions your humerus this is the quickest way to get under your own skin Dissecting the workings of everything from your heart to your brain into 30 second summaries this is the quickest way to understand the structures and systems that are you Supported by biographies of the pioneers in anatomy studies its the book that would have kept Burke and Hare home at night

Unexplainable Medical Cases Cassian Pereira, AI, 2025-03-31 Unexplainable Medical Cases explores the perplexing realm where medicine confronts its limits examining diagnostic mysteries that defy conventional understanding It highlights instances where the human body presents symptoms and conditions that challenge medical knowledge The book delves into the nature and significance of medical uncertainty underscoring how these cases prompt innovation and a renewed

investigation into the boundaries of current medical science One might find it intriguing that such undiagnosed conditions serve as catalysts for medical advancement pushing researchers to refine diagnostic approaches and explore new avenues The book provides an overview of the history of medical diagnostics illustrating the evolution of our comprehension of diseases Organized by categories such as neurological disorders and genetic mutations the book presents detailed case studies that account for patient symptoms and the diagnostic process Each case sheds light on rare genetic anomalies and bizarre physiological responses while underlining the importance of interdisciplinary collaboration The book emphasizes the diagnostic process and highlights the challenges and limitations physicians face It s valuable for medical professionals students and anyone interested in science medicine and human biology By exploring the complexities of medical diagnosis Unexplainable Medical Cases encourages patients to advocate for their health and promotes critical thinking within the medical field

Your Skeletal System Works! Flora Brett,2019-05-01 The skeletal system includes all the bones in the body With engaging text fun facts and infographics learn how the body s 200 bones fit together to make up the skeleton

Differentiated Lessons and Assessments - Science, Grade 5 Julia McMeans,2010 Practical strategies activities and assessments help teachers differentiate lessons to meet the individual needs styles and abilities of students Each unit of study includes key concepts discussion topics vocabulary and assessments in addition to a wide range of activities for visual logical verbal musical and kinesthetic learners Helpful extras include generic strategies and activities for differentiating lessons and McREL content standards

The Musical Leader ,1926 **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05 **The Forceps** ,1844 *Key-catalogue of Parasites Reported for Insectivora (moles, Shrews, Etc.)*

Charles Wardell Stiles,Samuel F. Stanley,1932 **Pediatric Facial Plastic and Reconstructive Surgery, An Issue of Facial Plastic Surgery Clinics of North America, E-Book** Sherard A. Tatum,2023-12-02 In this issue of Facial Plastic Surgery Clinics guest editor Dr Sherard A Tatum brings his considerable expertise to the topic of Pediatric Facial Plastic and Reconstructive Surgery Top experts cover key topics such as vascular lesions definitive cleft rhinoplasty primary cleft palate repair velopharyngeal insufficiency surgery microtia and more Contains 15 relevant practice oriented topics including facial skeletal trauma cleft lip nose repair and revision soft tissue repair and reconstruction otoplasty syndromic craniofacial disorders ERAS and pain management and more Provides in depth clinical reviews on pediatric facial plastic and reconstructive surgery offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

Musical News ,1907 **The Literary Gazette and Journal of the Belles Lettres, Arts, Sciences, &c** ,1850 **The Heart of Wisdom Teaching Approach** Robin

Sampson,2005-04 Details the Bible based homeschool teaching approach for parents and discusses Christian education learning styles unit studies bible study and more *The Encyclopaedia Britannica: Index A to Eng* ,1911 **Musical**

Courier and Review of Recorded Music ,1921

Dazed Kim Karr,2014-04-01 In this dramatic new novella from the New York Times bestselling author of Torn and Connected two people discover that even the truest love has ups and downs Jagger Kennedy never went looking for fame he just fell into it After scoring a major modeling contract his clean cut good looks and charm catapulted his career But when his actress girlfriend breaks his heart he moves to L A to try his hand at acting He needs to make a change and the last thing he s looking for is love Aerie Daniels is a woman in control until she meets Jagger Her surprising connection with him leaves her stunned and it s unlike anything she s ever felt But just when she lets her walls fall she makes a startling discovery about him that breaks her fragile heart into a million pieces To keep from losing the one woman he can t bear to be without Jagger is willing to give up anything including his career But even that might not be enough to regain Aerie s shattered trust Includes a preview of the next Connections series novel Mended Praise for the Connections series I was riveted from the first line New York Times bestselling author A L Jackson Incredibly emotional romantic sexy and addictive New York Times bestselling author Samantha Young Unpredictable and downright hot K A Tucker author of Ten Tiny Breaths Kim Karr lives in Florida with her husband and four kids She s always had a love for books and recently decided to embrace one of her biggest passions writing Her Connection series novels include Connected Torn and Mended

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