

Lab 5: Skeletal and Muscular Systems

LABORATORY OBJECTIVES

- Identify a male versus a female skeleton
- Identify the bones that make up the human body
- To investigate articulations and synovial joint movement
- To investigate muscles and bones working together-using dissection of a chicken wing
- muscle fatigue



INTRODUCTION:

Our skeletal and muscular systems work together to support our bodies and allow us to move in the various ways we do. The skeletal system also does other important things for our bodies; it protects our soft body parts, produces blood cells, and stores minerals and fats.

Our muscular system also has other functions; it helps maintain internal body temperature and assists with movement of fluid in our veins and lymphatic vessels - it also protects the organs of the abdominal region, and stabilizes joints.

ACTIVITY 1: Is the skeleton male or female?

MATERIALS

- Sammy the skeleton (Sammy could stand for Samuel or Samantha!)

METHODS

"The pelvis tells the story"¹: Distinct features adapted for childbearing distinguish adult females from males. Other bones and the skull also have features that can indicate sex, though less reliably. In young children, these sex-related features are less obvious and more difficult to interpret. Subtle sex differences are detectable in younger skeletons, but they become more defined following puberty and sexual maturation."

The differences:

Female pelvic bones

- Broader sciatic notch
- Raised auricular surface

Male pelvic bones

- Narrower sciatic notch
- flat auricular surface

¹ From Smithsonian Institute: http://anthropology.si.edu/writteninbone/come/activity/pdf/skeleton_male_or_female.pdf

Skeletal And Muscular Systems Lab Manual

Patrick Vollmar



Skeletal And Muscular Systems Lab Manual:

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Table of Contents Skeletal And Muscular Systems Lab Manual

1. Understanding the eBook Skeletal And Muscular Systems Lab Manual
 - The Rise of Digital Reading Skeletal And Muscular Systems Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Skeletal And Muscular Systems Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Skeletal And Muscular Systems Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Skeletal And Muscular Systems Lab Manual
 - Personalized Recommendations
 - Skeletal And Muscular Systems Lab Manual User Reviews and Ratings
 - Skeletal And Muscular Systems Lab Manual and Bestseller Lists
5. Accessing Skeletal And Muscular Systems Lab Manual Free and Paid eBooks
 - Skeletal And Muscular Systems Lab Manual Public Domain eBooks
 - Skeletal And Muscular Systems Lab Manual eBook Subscription Services
 - Skeletal And Muscular Systems Lab Manual Budget-Friendly Options
6. Navigating Skeletal And Muscular Systems Lab Manual eBook Formats

- ePub, PDF, MOBI, and More
- Skeletal And Muscular Systems Lab Manual Compatibility with Devices
- Skeletal And Muscular Systems Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Skeletal And Muscular Systems Lab Manual
 - Highlighting and Note-Taking Skeletal And Muscular Systems Lab Manual
 - Interactive Elements Skeletal And Muscular Systems Lab Manual
- 8. Staying Engaged with Skeletal And Muscular Systems Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Skeletal And Muscular Systems Lab Manual
- 9. Balancing eBooks and Physical Books Skeletal And Muscular Systems Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Skeletal And Muscular Systems Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Skeletal And Muscular Systems Lab Manual
 - Setting Reading Goals Skeletal And Muscular Systems Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Skeletal And Muscular Systems Lab Manual
 - Fact-Checking eBook Content of Skeletal And Muscular Systems Lab Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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