

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

**Thirumalaisamy P.
Velavancorresponding**



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