Introduction Cards

Last Name, First Name, Nickname, Phone, e-mail

Major/Undeclared/Area of Interest

Academic Status: Fr., So, Jr, Sr, PB, MS, PhD, CEP

Professional Objective: eg, Physical Therapist/TBA?

Hometown, Birthplace

Prior related course work/sports?

High School, Prior Community Colleges/Universities

Family/Special Interests/Hobbies

Something unique about you? or a Secret?

Injuries/Contraindications for Exercise

BI 199 Anatomy, Physiology & Weight Training

http://blogs.uoregon.edu/bi199/spring-2015/

- ✓I. Information Cards Welcome! Practical application that's fun!...
 - II. Introduction, Outline, Format & Guidelines
 Attendance, participation, lab activities = 30%
 Weight training/fitness component = 30%
 Thematic poster presentation = 30%
 Weight training/nutrition article/media review = 10%
 Expectations = The highest possible!!
 - III. <u>Alternative Review Exercise Video Evaluation</u>

 http://www.mayoclinic.com/health/squat/MM00743

 Technique, source?:

 .edu, .org, .gov vs. .com?
 - IV. Anatomy vs Physiology Structure vs. Function
 - V. Levels of Organization?
 - VI. Tissue Types?
 - VII. <u>Joints</u>? Where 2 Bones Meet!
 Muscles? Tendons? Ligaments? Cartilage?
 - VIII. Anatomical Position & Direction Terms?
 - IX. Basic Action Terms?
 - X. Weight Training vs Weight Lifting?

ANATOMY
STRUCTURE
WHAT?
WHERE?

vs PHYSIOLOGY

vs FUNCTION

vs HOW?

vs WHY?

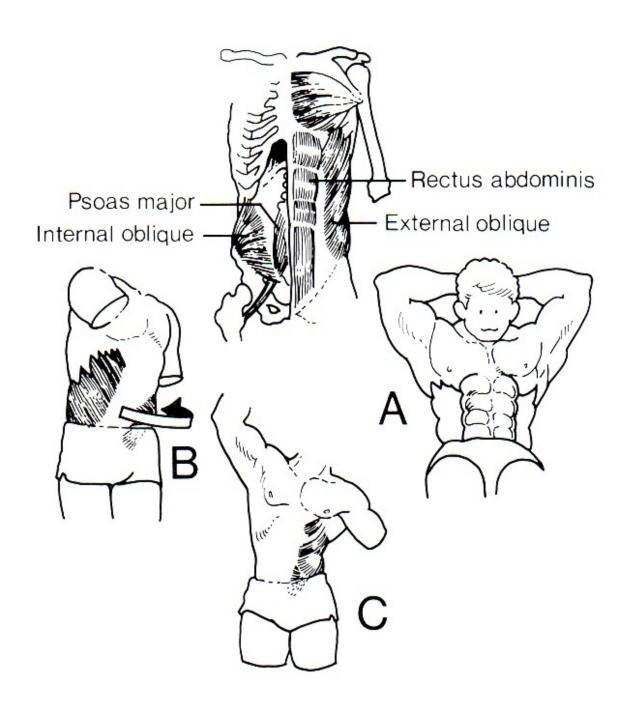


VS

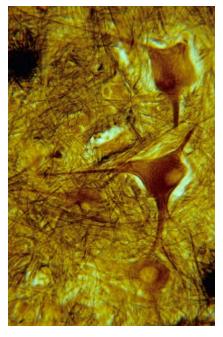


Structure gives rise to function! Structure determines function!

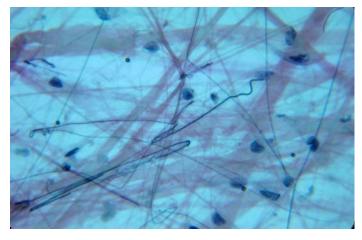




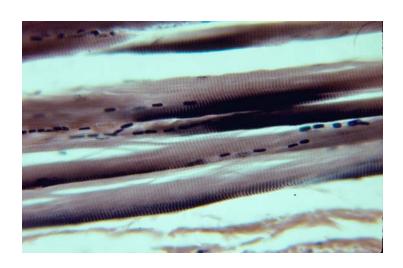
Body Levels of Organization 1. Molecular Entire Organism, 2. Cellular 3. Tissue 4. Organ 5. System L Sherwood 2012



Nerve conducts



Connective connects!!

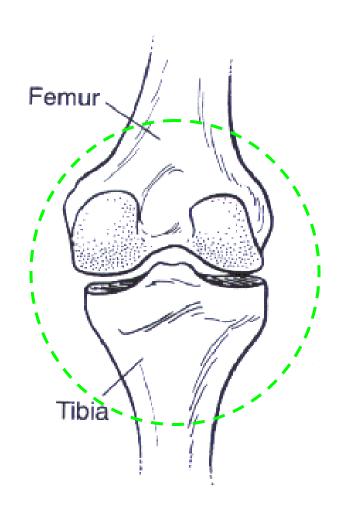


Muscle contracts

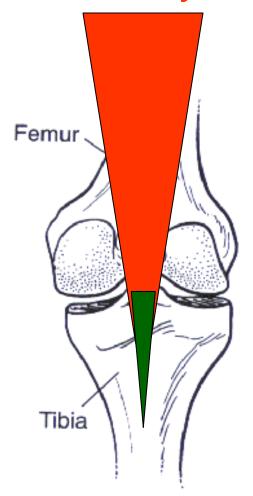


Epithelial covers

Joint: Simply a Place Where 2 Bones Meet!

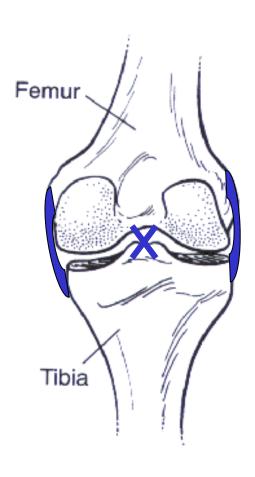


Muscles: Cross Joints by Way of Tendons

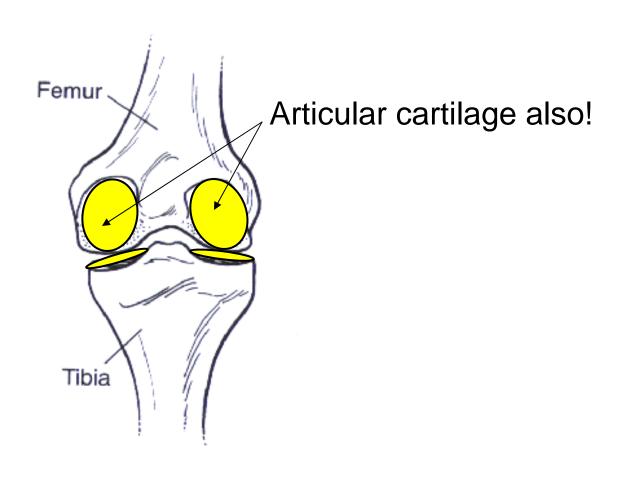


Tendons: Staple Muscles to Bones!

Ligaments: Connect Bone to Bone!



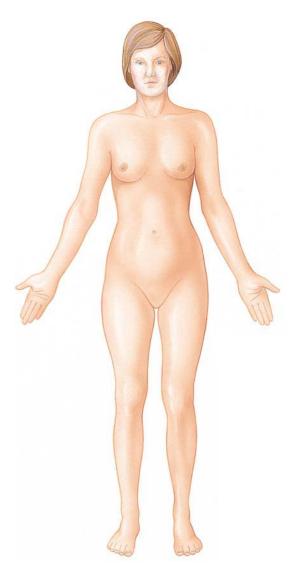
Cartilage: Cushion Between Bones!



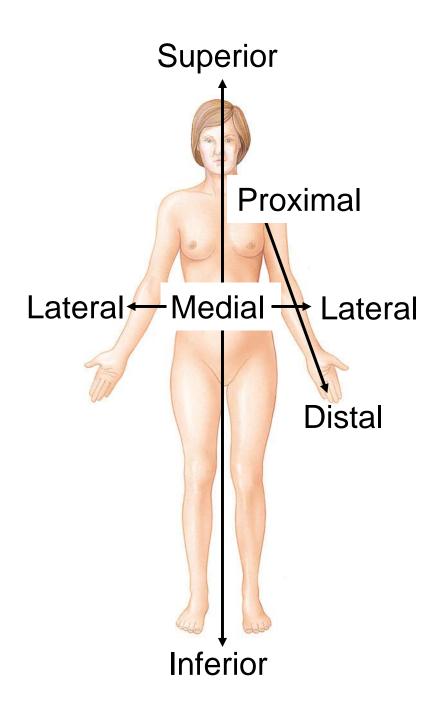
Anatomical Position: Reference for Anatomy

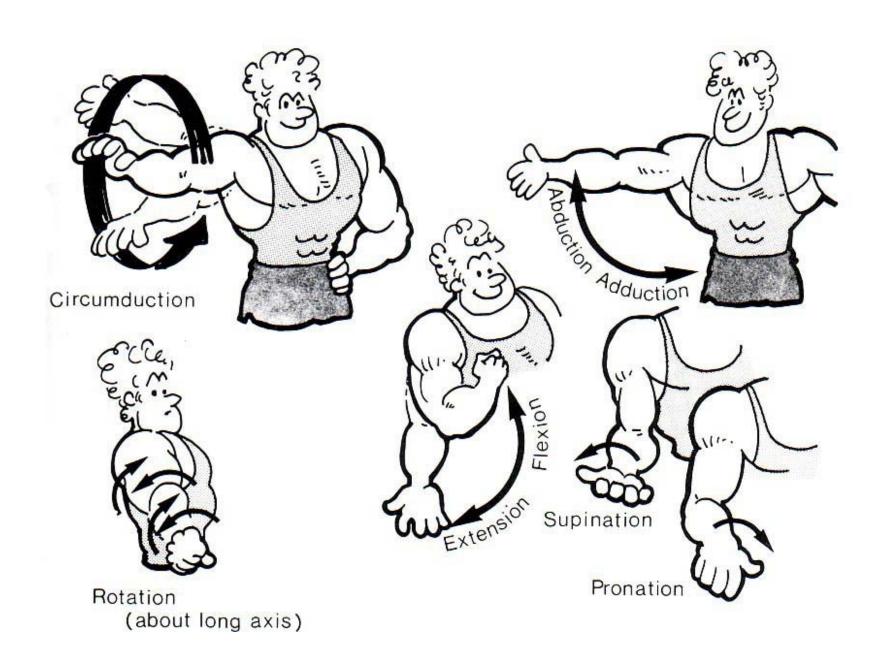
Anterior View

Posterior View

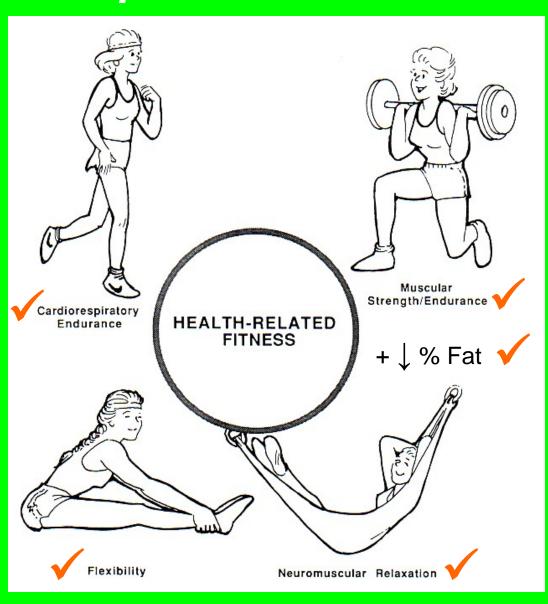








Weight <u>Training</u> is <u>Non-competitive</u> Goal: Improve Life Time Fitness!



Weight Lifting is Competitive Goal: Improve Strength for 1-RM!

Olympic Lifting



Power Lifting





<u>Body Building</u> is <u>Competitive</u> Bridges Gap? Wt Lifting vs Wt Training Goal: M. Hypertrophy, Balance, Delineation!

