

Human Superstructure → Skeleton muscles skin

BONES

300+ babies
206 adult
Largest → Femur
Smallest → Stapes (ear)

- * Red bone marrow makes red blood cells.
- * Yellow bone marrow store fats

KNOW THE SKELETON

Bones made of Collagen (flexible) + Minerals (strong)

- Spongy bone - spaces between minerals + collagen (spongy)
- Compact bone - minerals + collagen packed tightly.

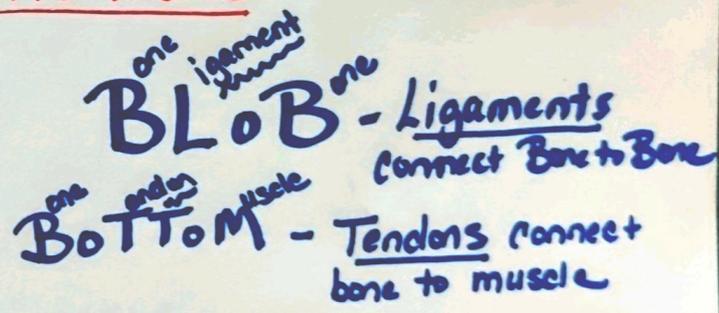


Vertebrate - has backbone NonVertebrate - no backbone

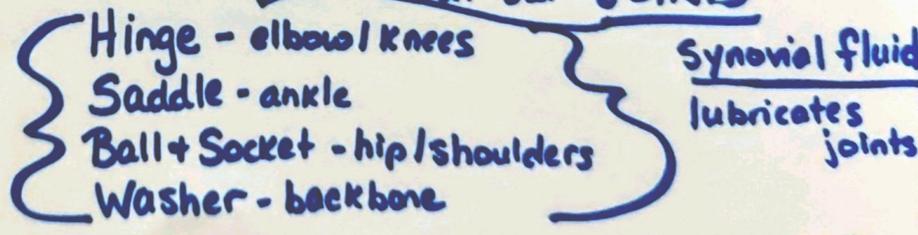
Cartilage - cushions bones

Muscles

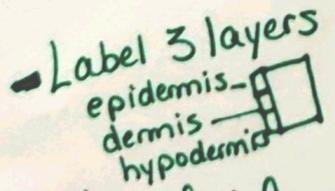
- 3 types {
- Skeletal - voluntary
 - Smooth - involuntary (stomach + organs)
 - Cardiac - involuntary (heart)



Tendons allow us to move our bones at our JOINTS



Skin



- * bodies primary line of defense
 - provides sense of touch
 - protects inner tissues from drying out

Hair - 2 functions
Sensation + insulation

Mammals - have hair ; Bird - feathers
Fish - scales

Keratinization → cells are hardened to make hair, nails + outer skin

Arrector Pili → goose bumps (muscle)

Sebaceous glands → produce oil that coats hair
over active = Acne

Melanine - chemical pigment
Freckles - over production
Albinism - no melanine at all.

Sun increases melanin