



LAB 2 POST-LAB ACTIVITY

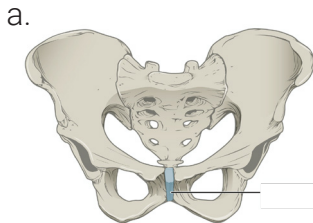
Please complete the assigned activities *after* your assigned lab and submit for a grade.

Name: [REDACTED]

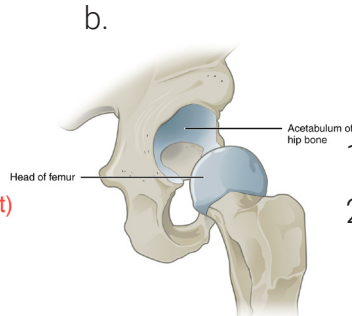
Brock ID: [REDACTED]

Lab #: [REDACTED]

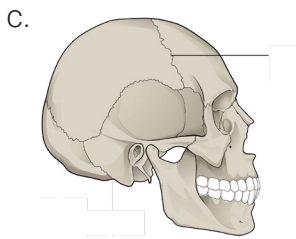
1. Identify the (1) structural and (2) functional classifications of the following joints (as indicated by the black line).



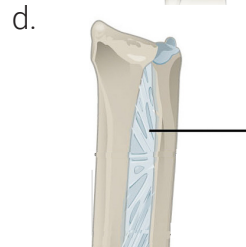
1. Cartilaginous - Symphysis
2. Amphiarthrosis (little movement)



1. Synovial (Triaxial)
2. Diarthrosis (free movement)



1. Fibrous - Suture
2. Synarthrosis (no movement)



1. Fibrous - Syndesmosis
2. Amphiarthrosis (little movement)

2. Complete the following table.

Synovial Joint	Number of axes of motion	Movement(s)	Example
Plane joint	1	Sliding and Gliding movements	Hands & feet
Pivot joint	1	Rotational movements (internal & external rotation)	vertebrae
Saddle joint	2	Circumduction (abduction, adduction, flexion extension)	Thumb
Hinge joint	1	flexion and extension	Knee and elbow
Condylar joint	2	Circumduction (abduction, adduction, flexion extension)	wrists and ankles
Ball-and-socket joint	3	Rotational movements in all directions (3 degrees of freedom) Circumduction (abduction, adduction, flexion extension)	shoulders and hips



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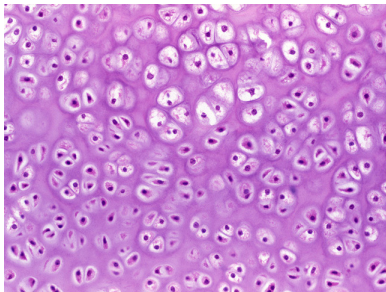
Please complete the assigned activities after your assigned lab and submit for a grade.

Name: _____ Brock ID: _____ Lab #: _____

3. Complete the following table.

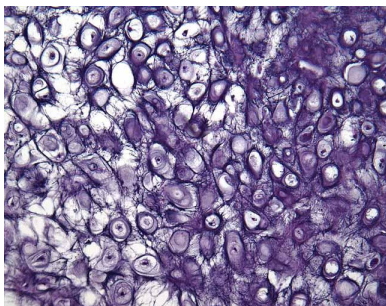
Cartilage	Function	Location (example)
Hyaline	- reduces friction between boney surfaces	- Septum of the nose - Tips of ribs and sternum
Elastic	- provides support - tolerates distortion (without damage) - returns to normal shape	- Epiglottis - Auditory canal
Fibrous	- resists its compression - prevents bone-bone contact - absorbs shock	- Intervertebral discs - Between pubic bones

4. Identify each of the histological images of cartilage below. What sort of characteristics make each one unique?



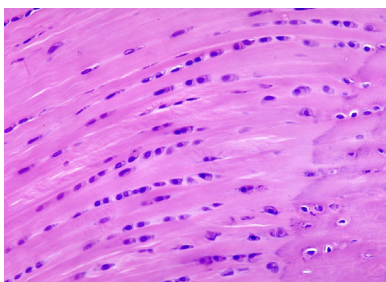
Hyaline Cartilage

- Weakest type of cartilage
- Slippery and smooth
- Somewhat flexible



Elastic Cartilage

- Extremely flexible



Fibrous Cartilage

- Strongest and least flexible
- Dense
- Regular