IV Basement membrane

- Elastin- elasticity
  - a protein that provides elastic properties to tissues or organs
  - skin, lungs, blood vessels and connective tissues
- Arrangement of elastin and collagen
  -sparse in loose connective tissue but are tightly packed in dense connective tissue

- **Examples of connective tissue**
  - **Fascia-** loose connective tissue
  - **Tendons and ligaments-** dense, regular connective tissue
- **Fascia –** provides support and protection to joint; acts as an interconnection between tendons, aponeuroses, ligaments, capsules, nerves and muscles
- **Tendons-** consists largely of high tensile strength collagen
  - cordlike structures that functions to:
  - Attach muscle to bone
  - To transmit the forces generated by muscles to bone
- **Ligaments -** Fibrous bands of dense connective tissue that connects bones across joints
  -prevents excessive motion
  -acts as guides to direct motion
  -provides proprioceptive information

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- **Bone-** living tissue capable of changing its structure as the result of stresses to which it is subjected
  - 2 Form:
    - Compact – solid mass
    - Cancellous – consists of a branching network of trabeculae
  - Regional Classification

Regional classification of Bones	
Region of Skeleton	**Number of Bones**
Axial Skeleton	
Skull	
• Cranium	8
• Face	14
• Auditory ossicles	6
Hyoid	1
Vertebrae (including sacrum and coccyx)	26
Sternum	1
Ribs	24
Appendicular Skeleton	
Shoulder girdles	
• Clavicle	2
• Scapula	2
Upper extremities	
Humerus	2