


### Interesting Facts about the Skeletal System





- Do we have more bones when we are a baby or when we are all grown up
  - Baby has 305 bones
  - Adult has 206 bones. This is because as we grown some of our bones join together to form one bone.
- The longest bone in our bodies is the **femur** (thigh bone).
- The smallest bone is the **stirrup** bone inside the ear.

**Differences between males and females:**

- Males and females have slightly different skeletons.
- Males have slightly thicker and longer legs and arms;
- Females have a **wider pelvis** and a larger space within the pelvis, Why: \_\_\_\_\_

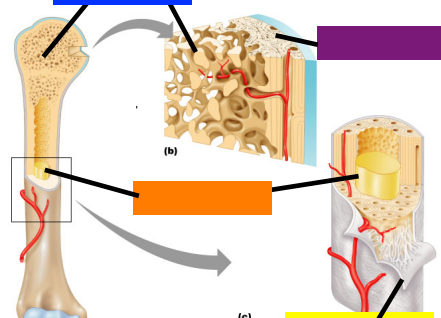


### 5 Functions of the Skeletal System

1. \_\_\_\_\_: framework that supports body and cradles its soft organs 
2. \_\_\_\_\_: for delicate organs, heart, lungs, brain 
3. \_\_\_\_\_: - bones act as levers for muscles 
4. \_\_\_\_\_: - calcium & phosphate
5. \_\_\_\_\_: Blood cell formation-RBC 

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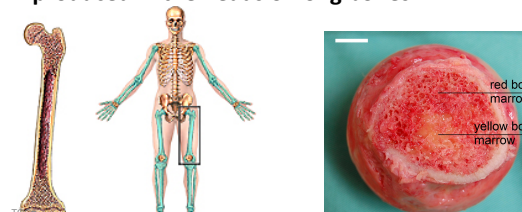
### Anatomy of a Long Bone



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### Bone Marrow

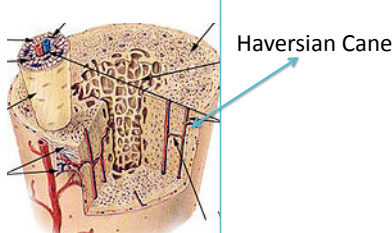
- Bone marrow is the flexible tissue found in the interior of bones.
- \_\_\_\_\_: In humans, red blood cells are produced in the heads of long bones



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### Haversian Canal

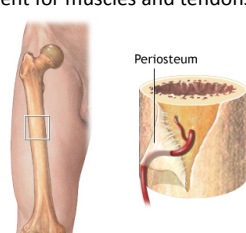
- Tunnels in bones for blood vessels, nerve fibers.



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### Periosteum

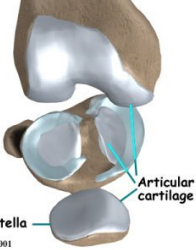
- Periosteum is a membrane that lines the outside of all bones
- attachment for muscles and tendons.



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\_\_\_\_\_

- Is a flexible connective tissue that:
  - \_\_\_\_\_ and stops them from grinding together (joints).
  - Where:
    - Ears, nose
    - Bronchial tubes



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### Types of Joints – Places that bend/move

\_\_\_\_\_ -

A hinge joint allows extension and retraction of an appendage. (Elbow, Knee)

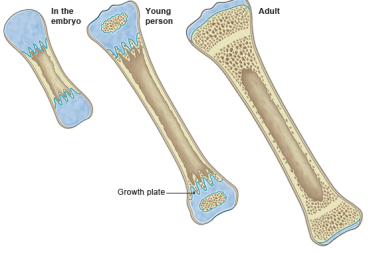
**and** \_\_\_\_\_ -

A ball and socket joint allows for radial movement in almost any direction. They are found in the hips and shoulders. (Hip, Shoulder)

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- **Making bone**
- The process of laying down new bone material by cells called osteoblasts.



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### Diseases of the Skeletal System:

**Rickets**- vitamin D deficiency

**Osteomalacia**- soft bones, inadequate mineralization in bones, lack of vitamin D

**Pagets Disease**- spotty weakening in the bones, excessive and abnormal bone remodeling

**Rheumatoid arthritis**- autoimmune reaction

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