Joints

(= Arthrosis = articulation)

**Function** "Range of movement"
- Synarthrosis → immobile
- Amphiarthrosis → slightly mobile
- Diarthrosis → freely mobile

**Structure** “What links the bones”
- Fibrous → dense CT
  - Suture
  - Syndesmosis
  - Gomphosis
- Cartilaginous → Hyaline or Fibro-cartilage
  - Synchondrosis
  - Symphysis
- Synovial → Ligaments
  - Plane
  - Hinge
  - Pivot
  - Saddle
  - Condyloid
  - Ball & socket
- Synostosis → Bone

**Fibrous Joints:**
Suture
- Bones linked by thin layer of fibrous connective tissue
- Bones have interlocking edges
- Located only in skull
- Immovable

Syndesmosis
*Two parallel bones held together by collagenous fibres*
- More connective tissue linking bones than in sutures
- Forms interosseous membrane or ligament
- May be slightly moveable

Gomphosis
- Joint between tooth and bony socket in the maxilla or mandible

**Cartilaginous Joints:**
Synchondrosis
*Epiphyseal plate & joint between rib 1 and sternum*
- Hyaline cartilage links bones
- Can facilitate longitudinal growth of immature long bones (epiphyseal plate)
- Synarthrosis

Symphysis
*Public symphysis & intervertebral discs*
- Bones joined by pad of fibrocartilage
- Compressible, strong and flexible
- Limited movement possible: amphiarthrosis