Classification of the Joints

CLASSIFICATION OF JOINTS

FIBROUS
- Skull sutures
- Interosseous membranes
- Inferior tibiofibular
- 11th, 12th costotransverse

Bone → Fibrous tissue → Bone

CARTILAGINOUS

Primary
- Costochondral
- 1st sternochondral
- Sphenoorbital

 Bone → Hyaline cartilage → Bone

Secondary
- Midline symphyses
- Intervertebral

 Bone → Fibrocartilage → Bone

ATYPICAL SYNOVIAL
- Articular surface covered with fibrocartilage
- Temporomandibular
- Sternoclavicular
- Acromioclavicular
- 2-7 Sternochondral

TYPICAL SYNOVIAL
- Articular surface covered with hyaline cartilage
- All other synovial joints

MOVEMENTS IN SYNOVIAL JOINTS

- PLANE Gliding
- Tarsus & Carpus

HINGE
- Interphalangeal

Flexion
Extension

MODIFIED HINGE
- Knee

Flexion
Extension
Rotation with flexed knee

CONDYLOID
- Metacarpophalangeal

Flexion
Extension
Adduction
Abduction
Circumduction

SADDLE CONDYLOID
- 1st Carpometacarpal

Flexion
Extension
Adduction
Abduction
Circumduction
“Controlled” rotation = opposition

PIVOT
- Both ends of radius
- Atlanto-axial
- Rotation (Uni-axial)

BALL AND SOCKET
- Hip
- Shoulder
- (Sternoclavicular
- Talocalcaneonavicular - many of the features of one)

Flexion
Extension
Adduction
Abduction
Circumduction
“Free” rotation