

BONES AND MAJOR LIGAMENTS

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MAJOR MUSCLES AND TENDONS

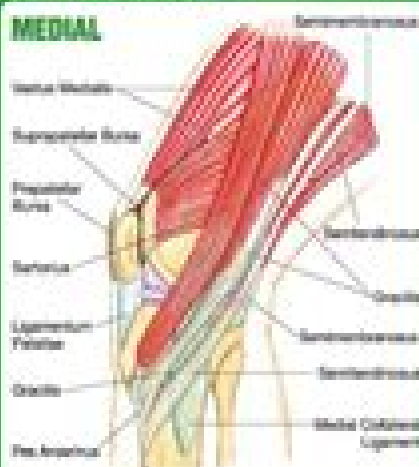
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The knee is a **Bicondylar type Synovial Hinge** joint formed between the distal ends of the Femur and the proximal ends of the Tibia with the **Patella** (Kneecap) in front of the Femur. A smooth, protective layer of **Hyaline Cartilage** coats the bone surfaces. Between the bones a crescent shaped pad of tough, **Fibrocartilage** (Meniscus) provides a smooth surface for movement and absorbs shocks. Surrounding the joint, connective tissue called the **Synovial Membrane** secretes lubricating **Synovial Fluid**. Strong **Cruciate Ligaments** in an "X" configuration stabilise and limit joint movement. The **Patella**'s function is to aid knee extension by enhancing **Quadriceps Tendon** mechanical leverage and to protect the anterior aspect of the joint. **Joint Extension** is enabled by the **Tensor Fasciae Latae** and **Quadriceps Femoris** (**Rectus Femoris**, **Vastus Lateralis**, **Vastus Medialis**, **Vastus Intermedius**) and **Flexion** by the **Hamstrings** (**Semitendinosus**, **Semimembranosus**, **Biceps Femoris**). Limited lateral rotation is enabled by **Biceps Femoris** and limited Medial rotation by **Semitendinosus**, **Semitendinosus**, **Gracilis**, **Sartorius** and **Popliteus**.



Anatomy Of The Knee Pictures

JA Banks



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