4.1 Joints and Motion Study Guide by Hisrich

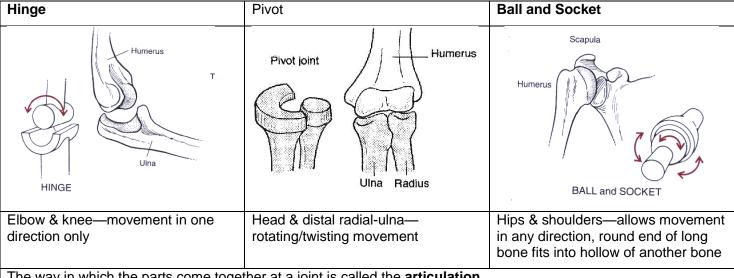
4.1.a. What role do **joints** play in the human body?

Joints are the places where two bones meet and allow movement & flexibility.

4.1.b. How are joints classified by both structure and function? 4.1.e. What terms describe the path of movement at a joint?

Immovable/Fibrous	Partially Moveable/Cartilaginous	Freely Moveable/Synovial
Do not move—EX: joints in dome of skull and between teeth and jawbone	Move little—linked by cartilage —EX: vertebrae in spine	Move in many directions— found at the hip, shoulders, elbows, knees, wrists, and ankles —filled with synovial fluid (acts as lubricant)— these joints have synovial cavities

What are the different types of synovial joints?



The way in which the parts come together at a joint is called the **articulation**.

4.1.d. What role do cartilage, tendons, and ligaments play at a joint?

Synovial cavity Bursa Joint capsule and synovial lining Tendon Enthesis	Enthesis Epiphyseal bone Articular cartilage Ligament Enthesis	Cushions/protects bones where they meet and rub against each other. The cartilage found in joints is hyaline cartilage—the same kind found in a fetal skeleton & it's referred to as articular cartilage where it attaches to articular bone surfaces.	Fibrous tissue that connects muscles to bones	Fibrous straps that fasten bones to other bones

4.1.f. What is range of motion?

Range of motion is the range through which a joint can be moved & can be measured using a goniometer to determine angles.

4.1.g. How do you measure the range of motion of a particular joint movement?

Movement toward body's midline	Movement at synovial joint in which distal end moves in circle and proximal end remains in one place	Moving bone around its own axis	
	- I place	_	
Adduction		wrist joint rotation BYB ©	
Flexion	Plantar Flexion	Dorsiflexion	
Bending movement around joint in limb that decreases angle between bones of limb at joint	Bending foot down (pointing toe)	Bending foot up	
Flexion Extension Radial Deviation Ulnar Deviation Pronation Supination		Dorsiflexion Plantar flexion	
Facility	Flexion Bending movement around joint in limb that decreases angle between cones of limb at joint Extension Pronation Supination	Flexion Bending movement around joint in limb that decreases angle between bones of limb at joint Extension Plantar Flexion Bending foot down (pointing toe) Consider the provided HTML of the point in limb that decreases and po	

4.1.h. How do bones, muscles and **joints** work together to enable movement and locomotion for the human body?

Our bones provide support and give our bodies shape, but cannot move on their own. The muscles provide the movement. The joints help attach bones to one another to provide flexibility & allow the muscles to help give the bones a way to move.