

The aim of this resource is to build a bank of knowledge that can be used throughout the course as well as at the end for review.

A favoured layout is to print two slides per A3 sheet; many students find the large visual style manageable, engaging and valuable as a supplement to other notes and resources.

On print-outs, fill in the blanks as you work your way through the slides

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## Joints, Movements and Muscles: An Overview



Types of synovial joint			
You need to know 3			
Name			
B& s	н	C	
Description			
The rounded end of one bone fits into a cuplike end of the other bone. 3 planes of movement • frontal • transverse • sagittal	The convex* surface of one bone fits into the concave* surface of the other bone(s). 1 plane of movement • sagittal	Similar to a ball and socket joint, but the curved surfaces are much flatter. 2 planes of movement • frontal • sagittal	
Examples			
1. 2.	1. 2. 3.	1.	
*convex: a surface that o *concave: a surface that o	curves outwar	ds. S.	

Movements			
You need to know 11			
joint angle decreases. limb (usually*) moves forwards.	joint angle increases. limb (usually*) moves backwards.		
limb moves away from midline.	limb moves towards midline.		
limb parallel to ground and moves forwards.	limb parallel to ground and moves backwards.		
limb turns about its longitudinal axis towards midline of body. Draws dot.	limb turns about its longitudinal axis away from midline of body. Draws dot.		
limb moves to describe	a cone. Draws circle.		
toes lifted up towards shin.	toes pointed down towards ground.		
* flexion of shoulder, wri forwards <b>BUT</b> flexion of k backwards. Vice versa fo	st, hip: limb moves mee limb moves r extension.		

Antagonistic muscle pairs			
You need to kno	w 9 pairs		
Muscles of the	shoulder joint:		
Anterior deltoid	P deltoid		
M deltoid	Latissimus dorsi		
Pm	Teres m		
Muscles of th	e elbow joint:		
Muscles of the wrist joint:			
Wrist	Wrist		
Muscles of t	he hip joint:		
l	Gluteus maximus		
Gluteus medius	Adductor l,		
& minimus	b & m		
Muscles of th	ne knee joint:		
(Hamstring group) Biceps Semi Semi	(Quadriceps group) Rectus Vastus Vastus Vastus Vastus		
Muscles of th	e ankle joint.		
T anterior	G & Soleus		

## <sup>1.2</sup> Planes of movement, Functional roles of muscles: An Overview









