

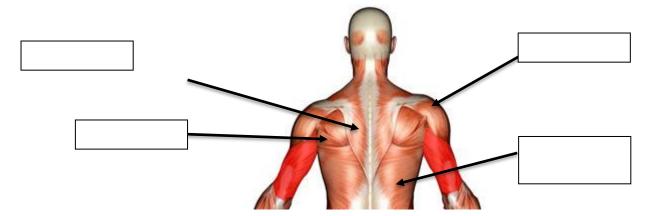
LO2 - Understand the muscular system in relation to exercise and physical activity

Content	Notes		
Main muscles acting at synovial joints	 Shoulder - deltoid, latissimus dorsi, pectoralis major, trapezius, teres major Elbow - biceps brachii, triceps brachii Radio-ulnar - pronator teres, supinator muscle Wrist - wrist flexors, wrist extensors Vertebral column - rectus abdominus, erector spinae group, internal and external obliques Hip - iliopsoas, gluteus maximus, gluteus medius, gluteus minimus, adductor longus, adductor brevis, adductor magnus Knee - rectus femoris, vastus medialis, vastus intermedius, bicpes femoris, semimembranosus, semitendinosus Ankle - tibialis anterior, gastrocnemius, soleus 		
Types of muscle function	Agonist, antagonist, fixator		
Types of muscular contraction	IsometricConcentricEccentric		
Structure and function of muscle fibre types	 Slow oxidative Fast oxidative Fast glycolytic 		
Link between fibre types and performance	In different types of physical activity and different intensities		
Impact of physical activity, training and lifestyle	 Short term Long term Effects of warm ups and cool downs 		

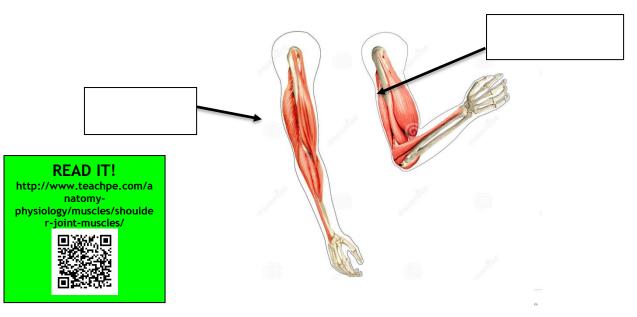


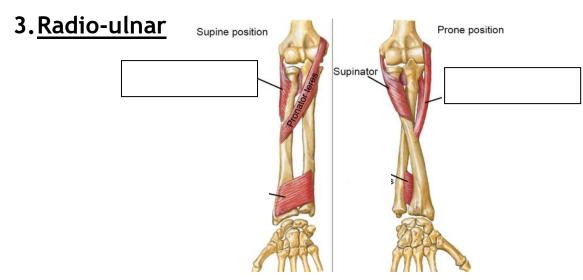
Please label the main muscles at synovial joints

1. Shoulder

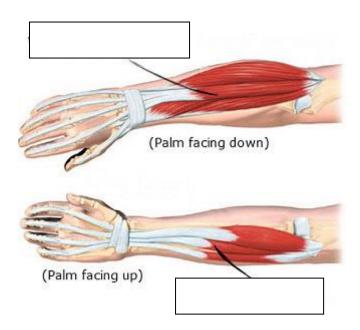


2. Elbow

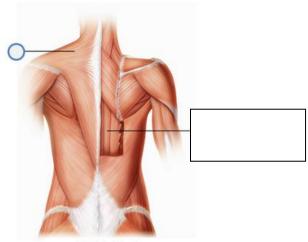




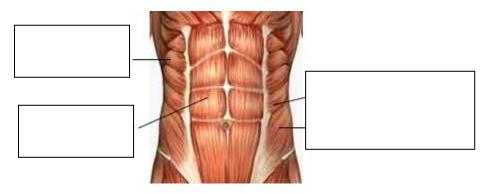
4. Wrist



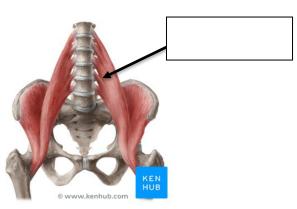
5. Vertebral column

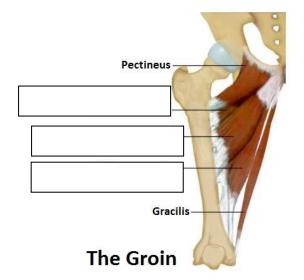




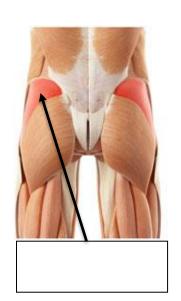






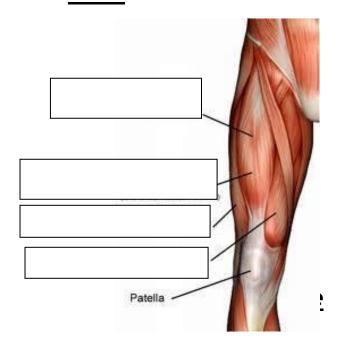




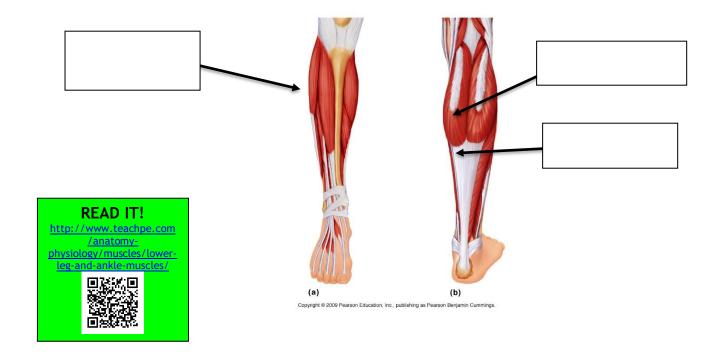




7. Knee







Aim Higher

Complete the table below to show joints, movement and active muscles. Use previous notes to help if necessary.

JOINT	MOVEMENT	DEFINE THE MOVEMENT	ACTIVE MUSCLE
Shoulder	Flexion	Decreasing an angle at a joint. Such as	
		the upward phase of a bicep curl or	
		bending the leg at the knee getting ready	
		to kick a ball.	
	Extension		
	Abduction		
	Adduction		
	Horizontal		
	flexion		
	Medial rotation		
	Lateral rotation		
Elbow	Flexion		
	Extension		
Radioulnar	Pronation		
	Supination		
Wrist	Flexion		
	Extension		
Vertebral	Flexion		
	Extension		
	Lateral flexion		
Hip	Flexion		
	Extension,		
	abduction		
	Adduction		
	Flexion		
Knee	Flexion		
	Extension		
Ankl	Dorsiflexion		
	Plantar flexion		