



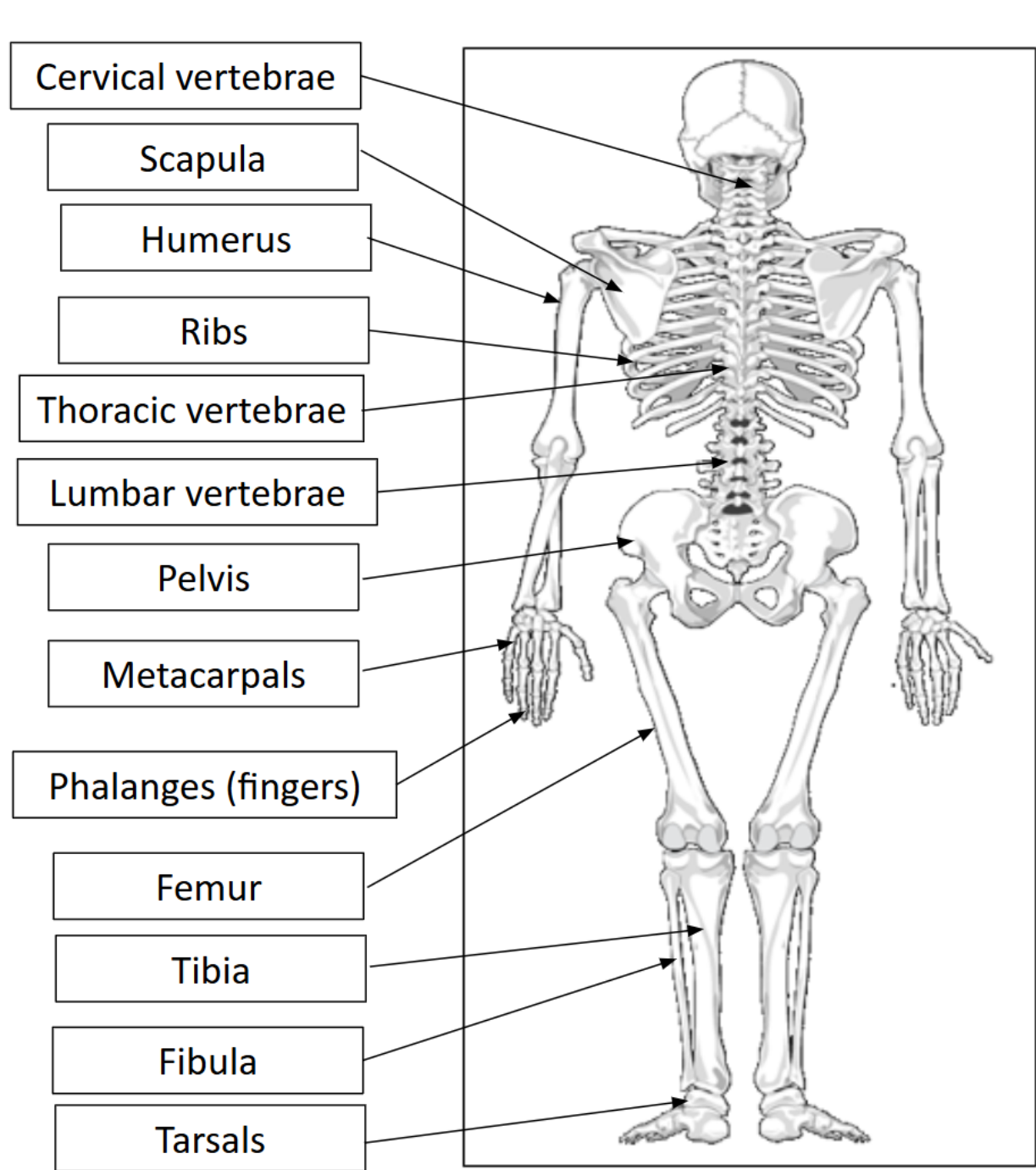
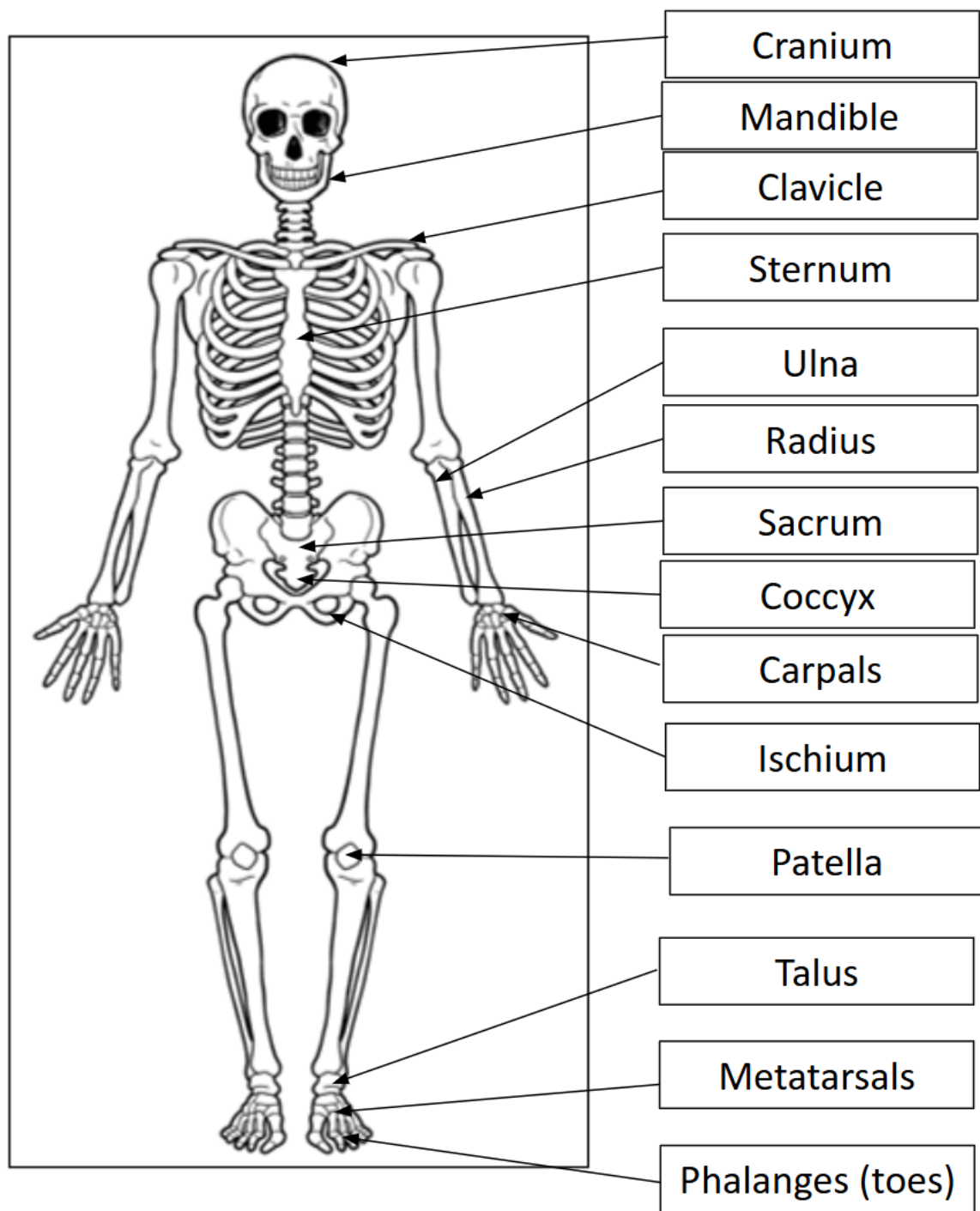
Getting ahead in A level Physical Education

SUMMER TASK

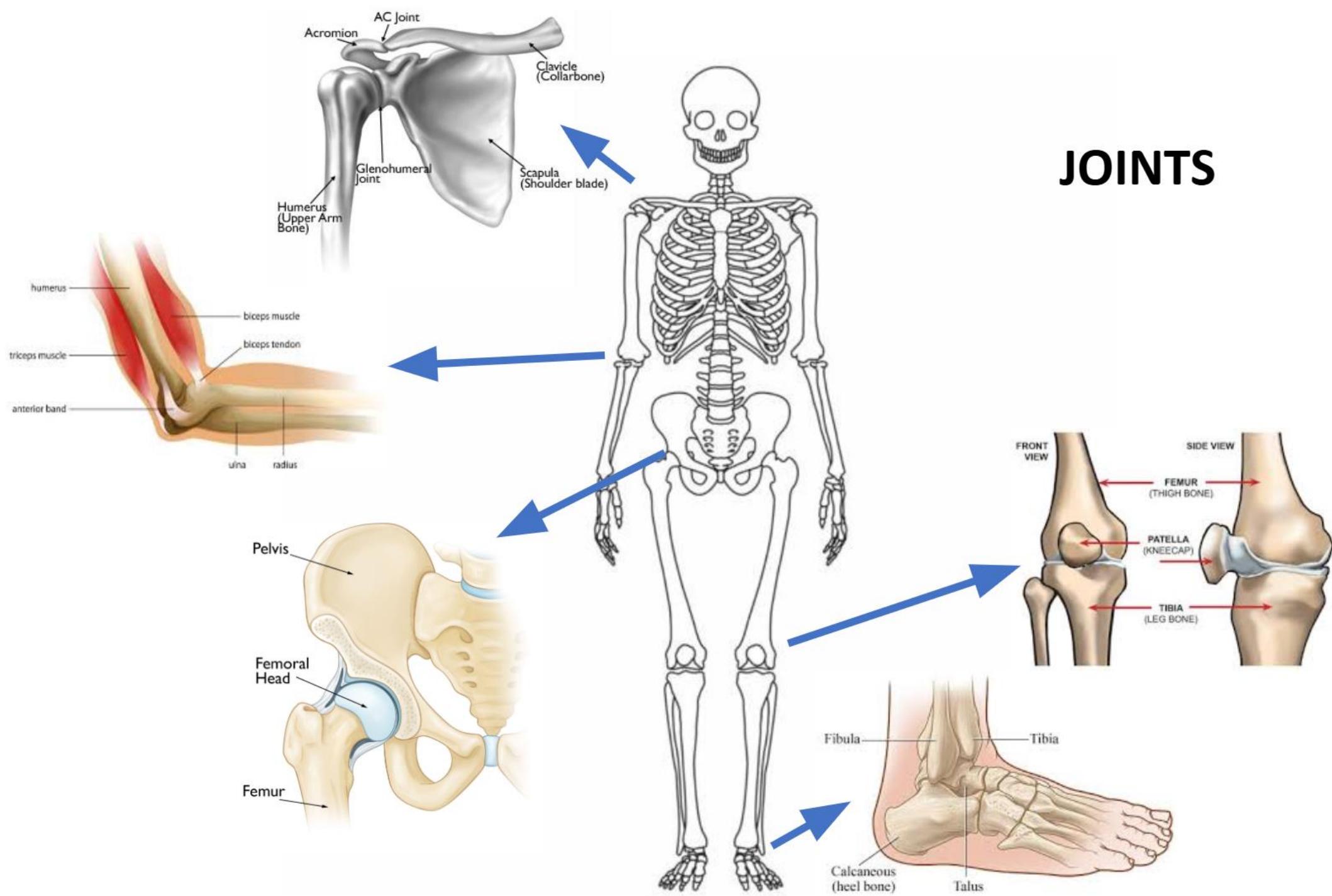
SECTION A: APPLIED ANATOMY & PHYSIOLOGY

Handout 1 & 2 Guidance





JOINTS



Synovial Joints & their Articulating Bones

What does Articulating mean?

Bones that meet and move at the joint

JOINT	JOINT TYPE	ARTICULATING BONES
Ankle	Hinge	Talus, tibia, fibula
Knee	Hinge	Femur, tibia
Hip	Ball and socket	Pelvis, femur
Shoulder	Ball and socket	Scapula, humerus
Elbow	Hinge	Radius, ulna, humerus

JOINT ACTIONS

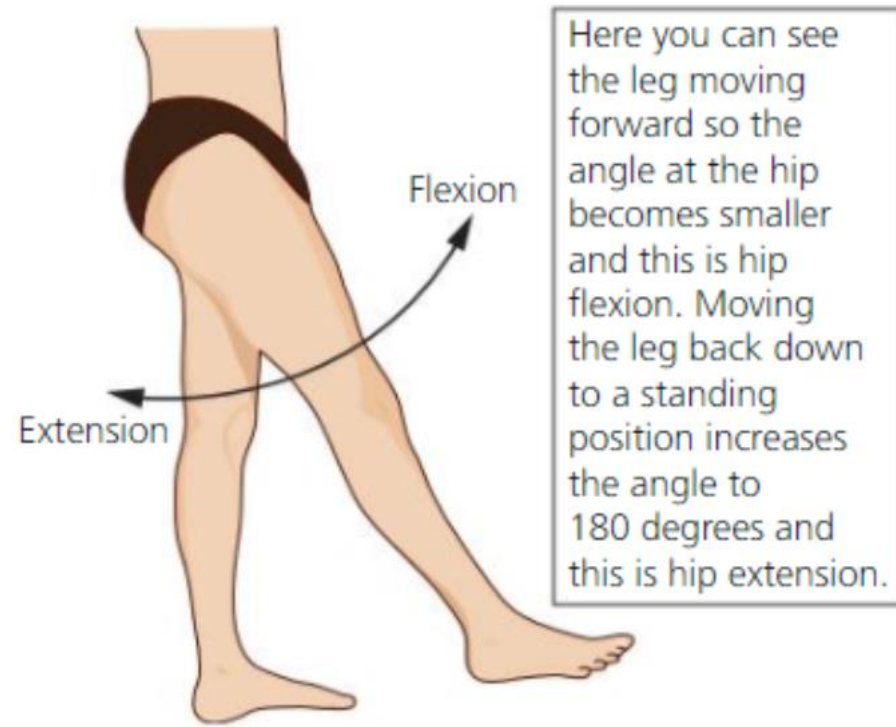


Figure 5 Hip flexion and extension

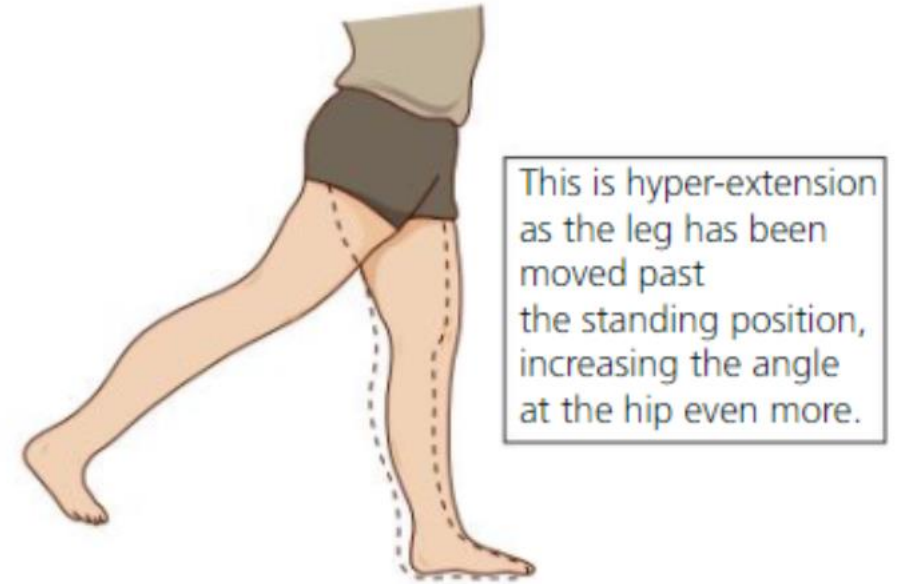


Figure 6 Hip hyper-extension

FLEXION, EXTENSION & HYPEREXTENSION - Hip

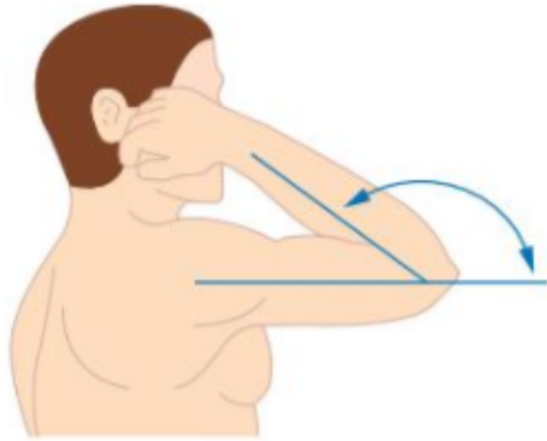


Figure 7 Elbow flexion and extension

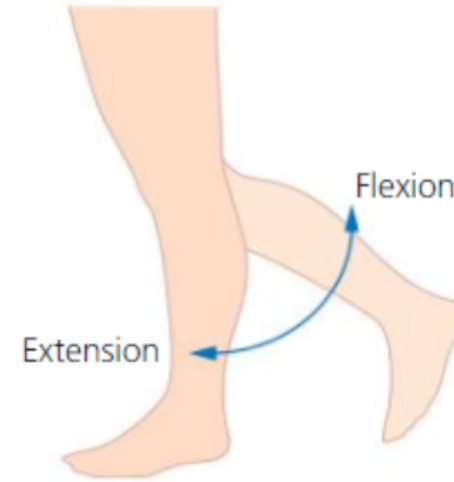


Figure 8 Knee flexion and extension

FLEXION & EXTENSION

– Elbow & Knee

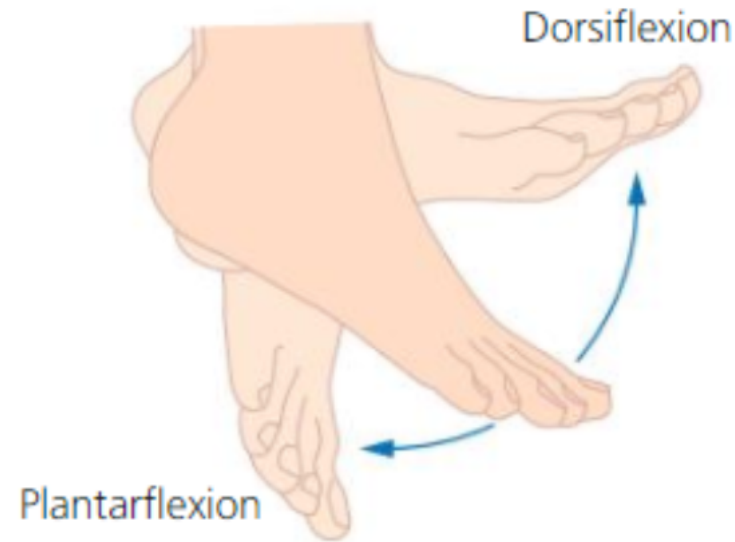


Figure 9 Ankle plantar-flexion and dorsi-flexion

PLANTAR-FLEXION & DORSI-FLEXION – Ankle

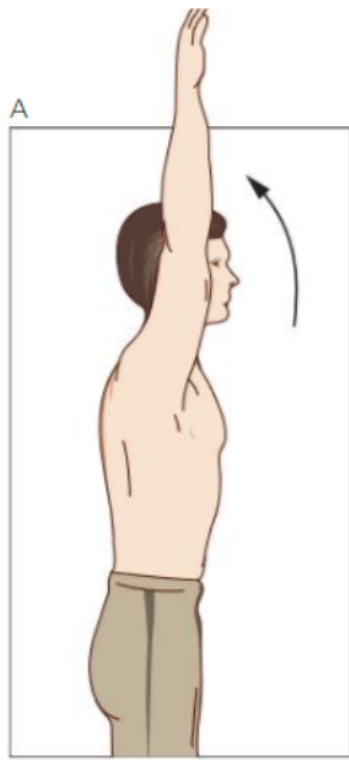
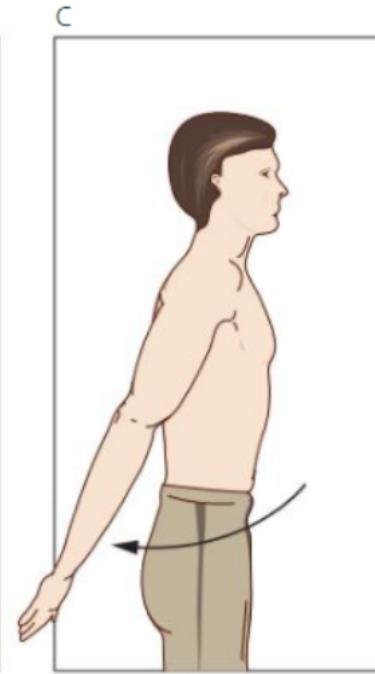
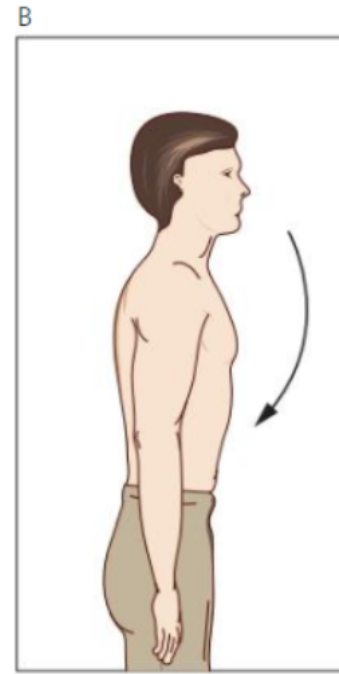


Figure 10 Shoulder flexion

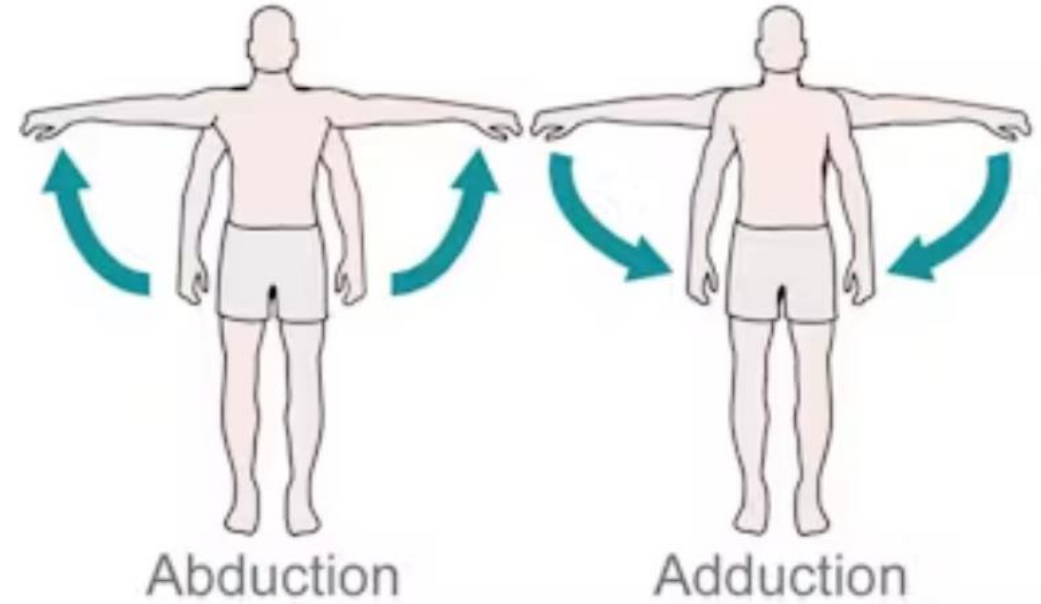
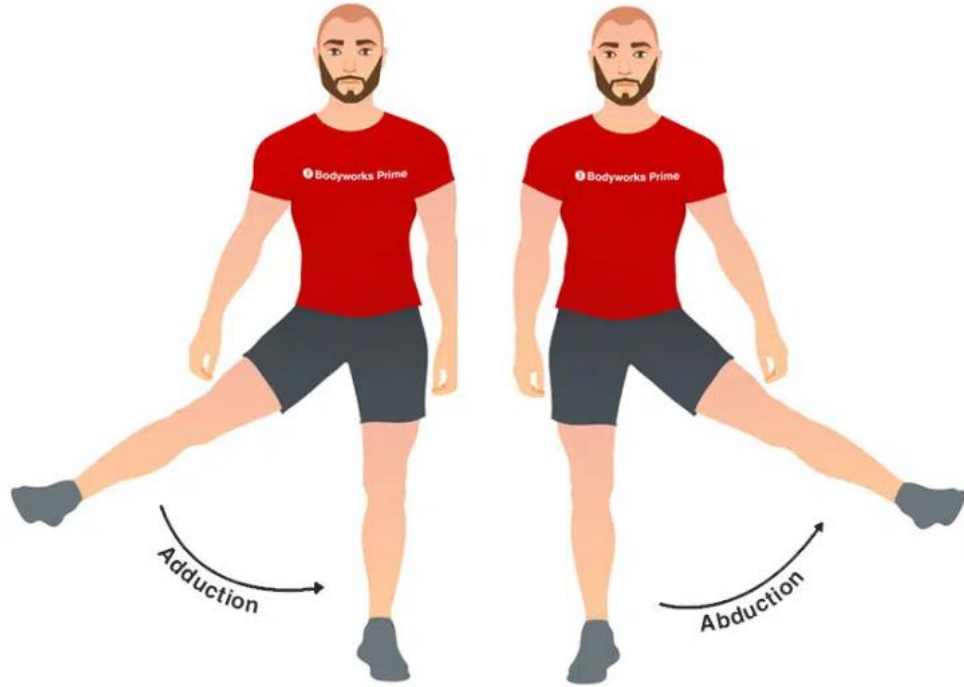


When the arm goes forward it is flexion (A) and the angle is 180 degrees. When the arm moves backwards to the side of the body it is extension and the angle is 0 degrees (B). Moving the arm back further is hyper-extension (C).

Figure 11 Shoulder extension and hyper-extension

FLEXION, EXTENSION & HYPEREXTENSION

– Shoulder



ADDUCTION & ABDUCTION – Hip & Shoulder



Horizontal adduction



Horizontal abduction

HORIZONTAL ADDUCTION & HORIZONTAL ABDUCTION – Hip & Shoulder

Joint Action definitions

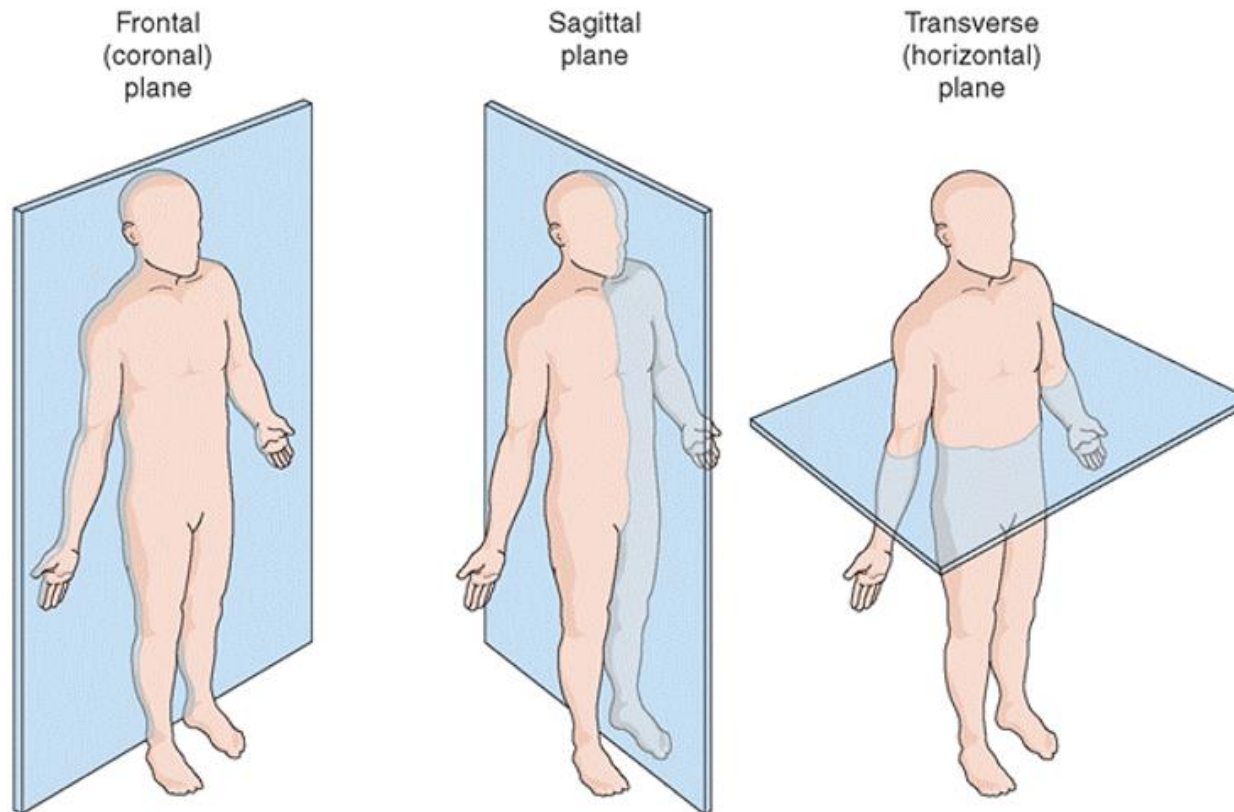
JOINT ACTION	DEFINITION
Flexion	Decreasing the angle between the bones of a joint
Extension	Increasing the angle between the bones of a joint
Plantar-flexion	Pointing the toes/ pushing up onto your toes
Dorsi-flexion	Pulling the toes up to the shin
Hyper-extension	Increasing the angle beyond 180 degrees between the bones of a joint
Adduction	Moving a limb towards the mid-line of the body
Abduction	Moving a limb away from the mid-line of the body
Horizontal adduction	Movement of a limb forwards while it is held parallel to the ground
Horizontal abduction	Movement of a limb backwards while it is held parallel to the ground

JOINT	JOINT TYPE	ARTICULATING BONES	JOINT MOVEMENTS
Shoulder	Ball and socket	Humerus and scapula	Flexion Extension Hyper-extension Abduction Adduction Horizontal abduction Horizontal adduction
Elbow	Hinge	Humerus, radius and ulna	Flexion Extension
Hip	Ball and socket	Femur and pelvis	Flexion Extension Hyper-extension Abduction Adduction Horizontal abduction Horizontal adduction
Knee	Hinge	Femur and tibia	Flexion Extension
Ankle	Hinge	Tibia, fibula and talus	Dorsi-flexion Plantar-flexion

JOINTS & THEIR MOVEMENTS - SUMMARY

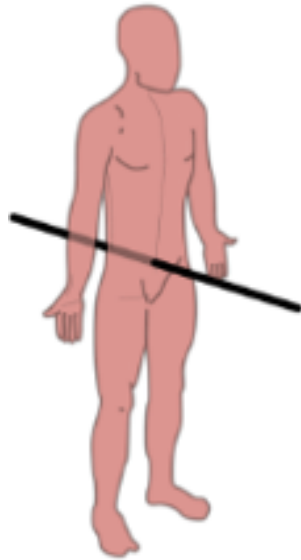
PLANES

To help explain joint action, it is possible to view the body as having a series of imaginary lines running through it. These are referred to as **PLANES of movement** and divide the body up in **three** ways:

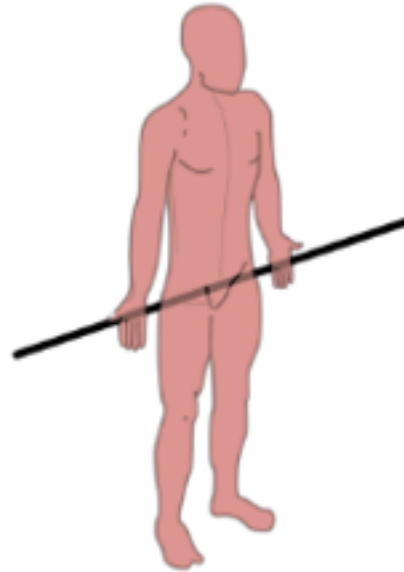


AXES

There are **three axes** of movement about which **rotation** occurs:



Sagittal



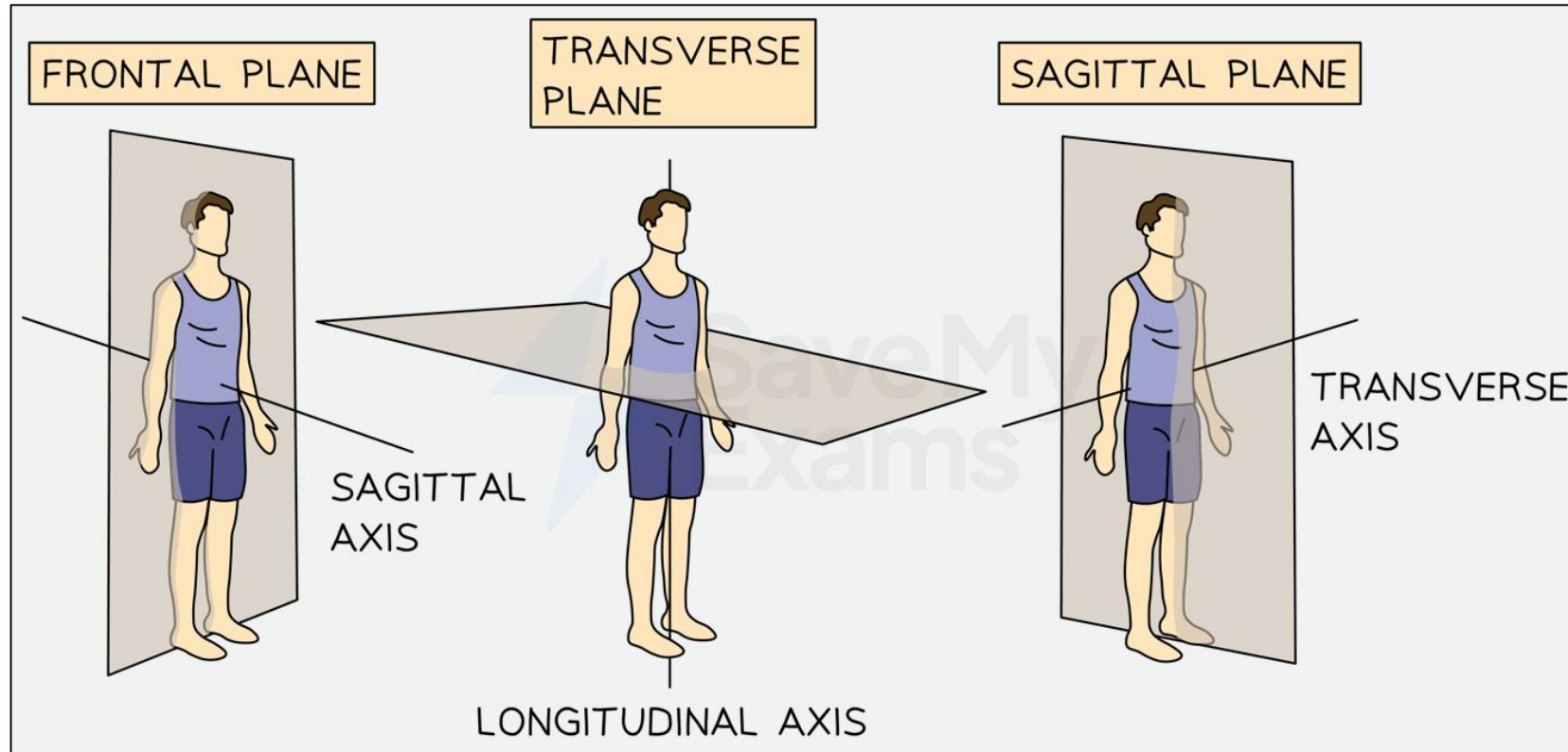
Transverse



Longitudinal

JOINT ACTIONS RELATED TO PLANES AND AXES

The joint action taking place can be related to both planes and axes.



PLANE (direction) and AXIS (turning force)

FRONTAL PLANE about a SAGITTAL AXIS
(Frosty Snowman)


Abduction & Adduction
(shoulder & hip)

TRANSVERSE PLANE about a LONGITUDINAL AXIS
(TwiLight)

Horizontal abduction & Horizontal adduction
(shoulder & hip)

SAGITTAL PLANE about a TRANSVERSE AXIS
(Soft Teddy)

Flexion, Extension & Hyper-extension
(shoulder, elbow, hip, knee)
Plantar-flexion & Dorsi-flexion
(ankle)

A soccer ball is shown hitting a goal net, with the net's hexagonal pattern clearly visible. The background is a blurred green field.

SECTION B: SKILL ACQUISITION

Handout 3 & 4
Guidance

Selective attention (Handout 3)

Selective attention in sport refers to an athlete's ability to focus on **relevant information** while filtering out distractions, a crucial skill for performance improvement. This skill allows athletes to concentrate on the task at hand, ignoring irrelevant sensory input or thoughts, which is particularly helpful in dynamic, fast-paced situations.

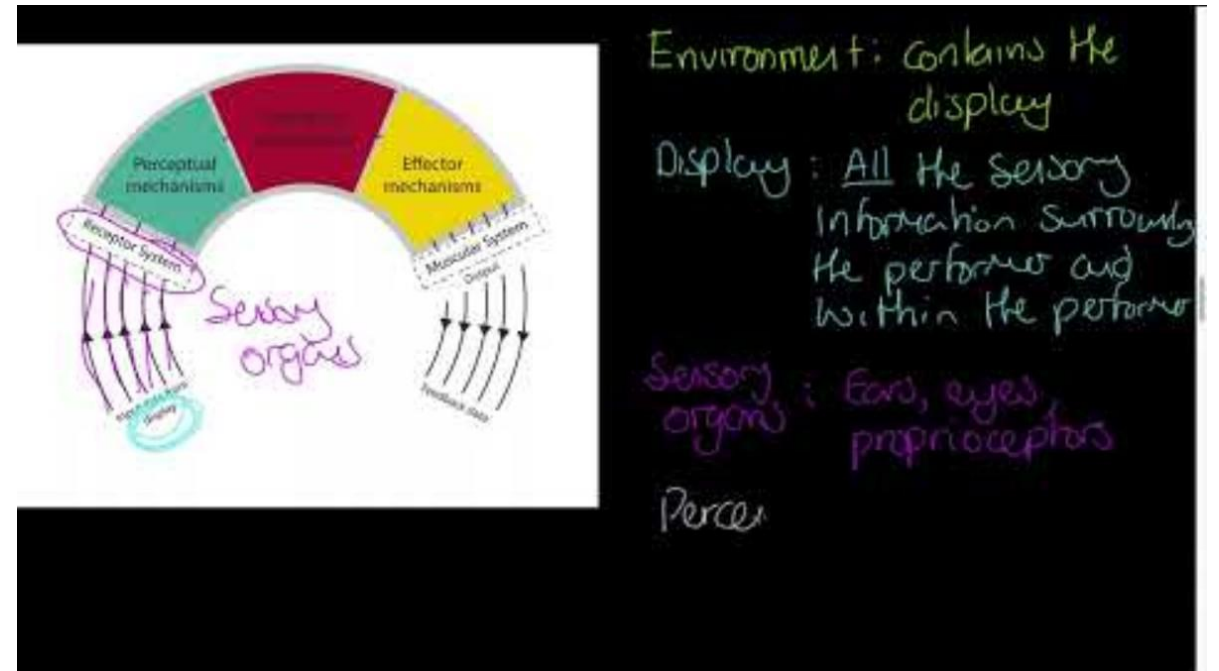
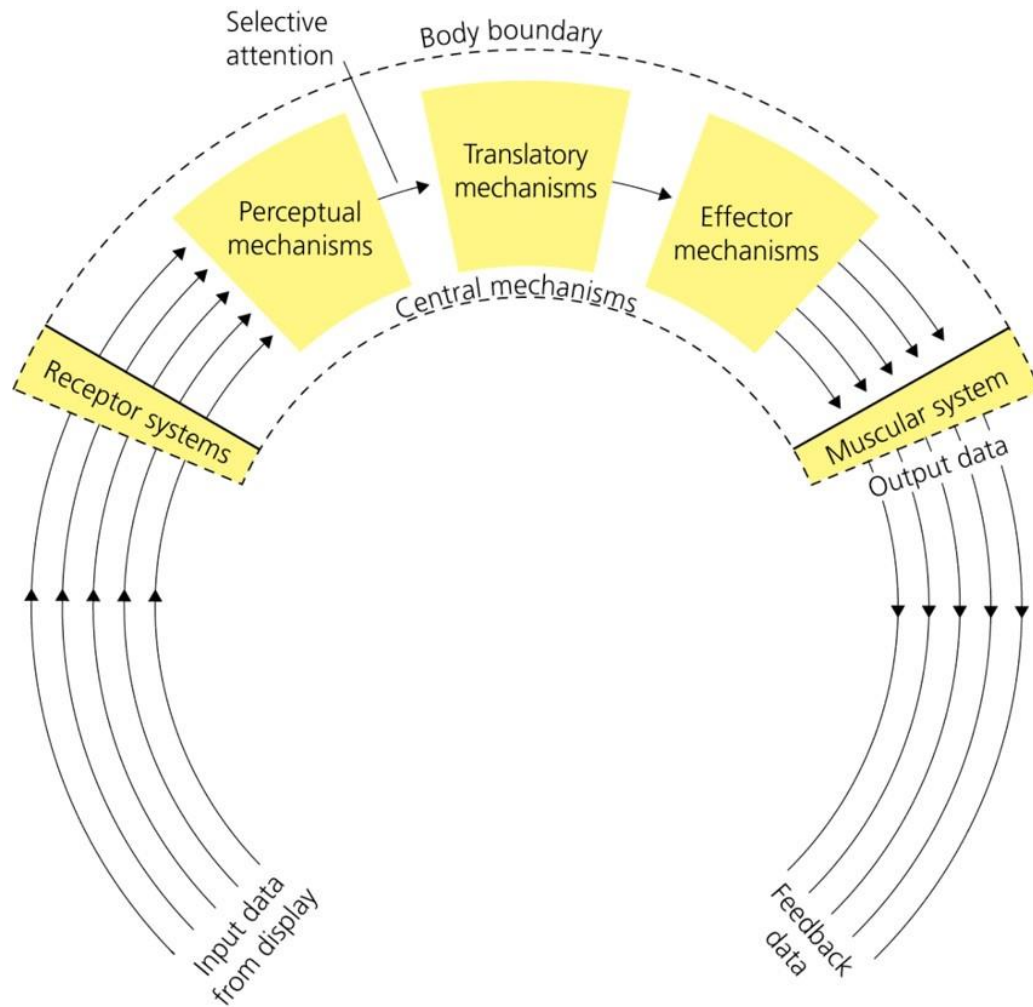


How can it be developed?

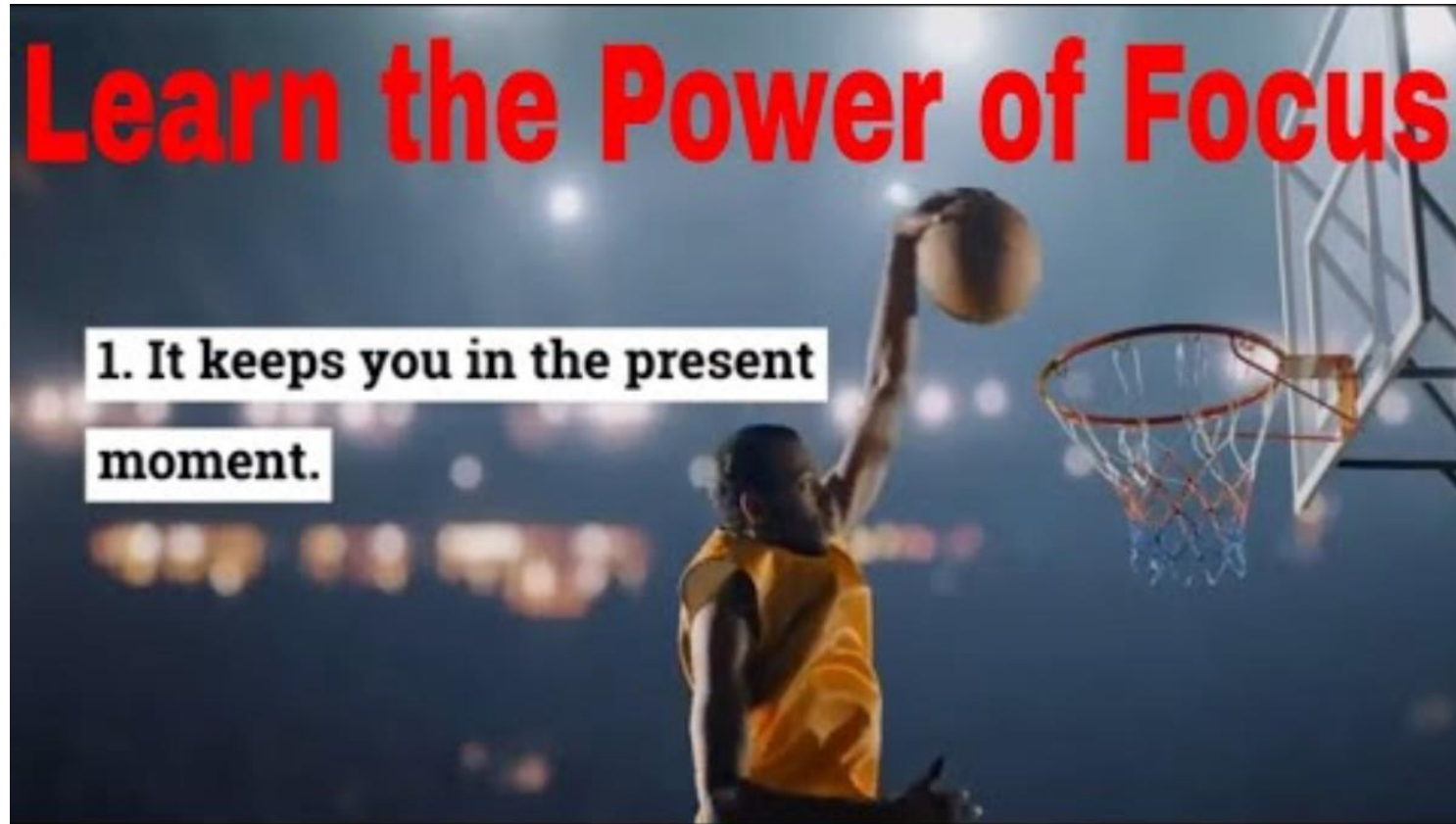
<https://www.nation.sc/archive/246051/how-athletes-can-improve-their-selective-attention-in-sports>

<https://members.belieperform.com/imagery-in-sport-elite-athlete-examples-and-the-pettle-model/>

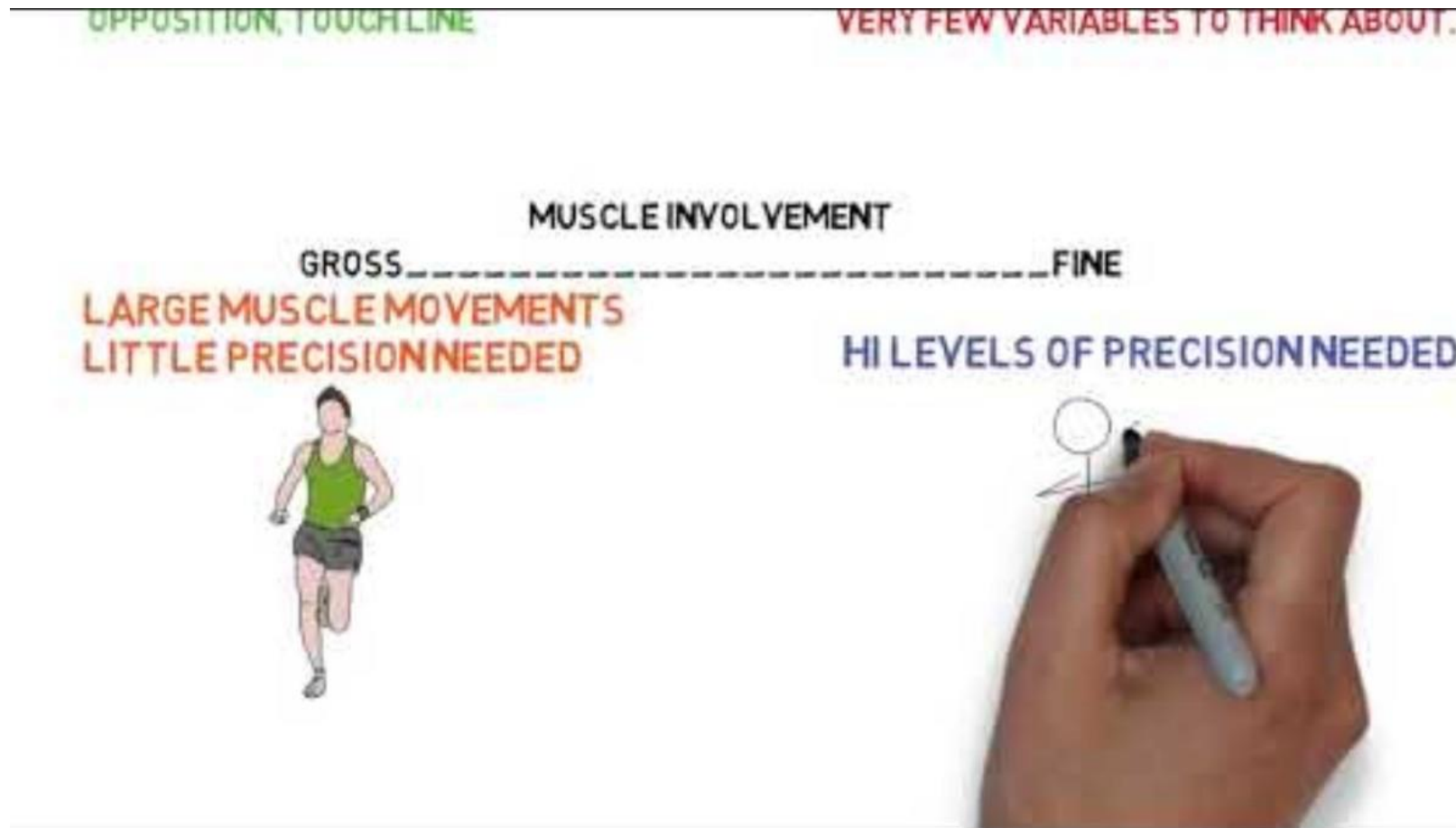
Whiting's information processing model



What are the benefits of good selective attention?



Skill Classification (Handout 4)



SECTION C: SPORT & SOCIETY



Handout 5 & 6
Guidance

Stereotyping, Prejudice & Discrimination



Raheem Sterling's Barriers





Show Racism the **Red Card**



Sporting **E**quals



Initiatives to tackle Racism
