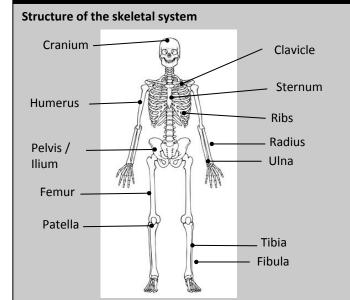
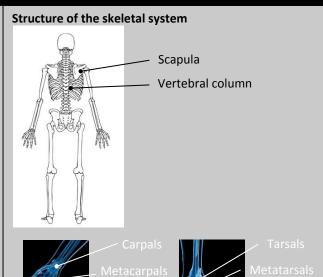
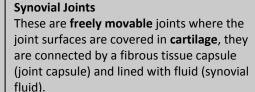
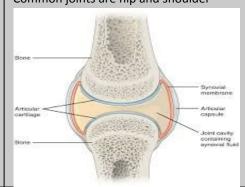
GCSE Physical Education – The structure and functions of the skeletal system







Common joints are hip and shoulder



Function of the skeleton

- Shape and Support posture
- **Movement** muscle attachment & joint movement
- Protection of vital organs
- Production platelets, red and white blood cells
- **Storage** of minerals (calcium, phosphorus, iron, potassium)

Classification of joint

- Pivot (neck atlas and axis)
- Hinge (elbow and knee)
- Ball and socket (hip and shoulder)



Cartilage:

Used to reduce friction at a joint

Hyaline cartilage (articular) – on the ends of bones at a synovial joint to stop rubbing White Fibro-cartilage – between bones as a shock absorber e.g. vertebrae, knee

Joint movements

at a joint

(straightening)

Extended Knowledge

Joint movements		Extended knowledge	
Flexion	Adduction	Rotation	Dorsi-Flexion (ankle joint)
Decreasing the angle at a joint (bending)	Limbs moving towards the midline of the body.	A twisting/turning action around a joint.	When the toes are turned up to the body.
Extension	Abduction	Circumduction	Planter-Flexion (ankle joint)
Increasing the angle	Limbs moving	A combination of	When the toes are

Connective tissue

Ligaments – attaches bone to bone to add joint stability.

Tendons – attaches muscles to bone and contributes to joint movement as a result of muscle contraction.



Limbs moving away from the midline of

the body.



flexion, extension adduction & abduction.



When the toes pointed away from the body.

GCSE Physical Education – The structure and functions of the skeletal system				
Term	Definition/notes/concept			
Keywords:				

@PEResourcesbank