

e.g. the vertebrae



• Flat (or plate) bones: The bones that are primarily required for the protection of vital organs, and which also provide a site for muscle attachment e.g. the skull and ribs

Irregular bones: The bones that are primarily involved in providing protection and shape

Joints

Joints are where two or more bones are connected, and where movement occurs. There are different types:

	Immovable Joints		Cartilaginous Joints		
	Fixed		Slightly Moveable		
	E.g. in the skull and pelvis		E.g. the joints between vert		
	Hinge Joint Joints that you can bend e.g. the knee joint			Condyloid Join Joints that allow movement in two planes <i>e.g. the wrist joint</i>	
Ball at Joints th rotate e.g. the	ad Socket Joint hat you can bend and hip joint			Synovial Joints	
	Gliding Joint Joints that allow gliding movements e.g. the joints between carpals and tarsals				

Movements									
Flexion	Extension	Adduction	Abduction	Rotation					
The angle of the joint decreases in size	The angle of the joint increases in size	Movement of a limb towards the body	Movement of a limb away from the body	A circular motion about axis					
<i>E.g. flexion at the elbow joint during the upwards phase of a pull-up</i>	E.g. extension at the knee when kicking a football	E.g. adduction of the arms during the downwards phase of a star jump	E.g. abduction of the arms during the outwards phase of a star jump	E.g. rotation of the whole body during a cartwheel					

Connective tissue

Connective tissue provides support and connects different parts of the body. There are three different types:

- Tendons: Strong, non-elastic tissue that joins muscle to bone
- Cartilage: Tough, flexible tissue that acts as a shock absorber between bones
- Ligaments: Connective tissue that attaches bone to bone, and helps to keep joints stable











Complete the table by	Movements						
filling in the missing	Flexion	Extension	Adduction Abduction		Rotation		
examples	The angle of the joint decreases in size	The angle of the joint increases in size	Movement of a limb towards the body	Movement of a limb away from the body	A circular motion about axis		
		E.g. extension at the knee when kicking a football		E.g. abduction of the arms during the outwards phase of a star jump			

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