

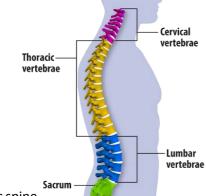
AREAS OF THE SKELETON

Axial in Red & Appendicular in Blue (in diagram above)

7 Cervical, 12 Thoracic, 5 Lumbar,

Curvature & Alignment (as shown)

5 Sacral, 4 Coccygeal vertebrae



- Coccvx

Elbow

Wrist

Hip

Knee

Ankle

Humerus, Radius, Ulna Joint Type: Hinge

Carpals, Radius, Ulna

Illium, Pubis, Ischium, Femur

Joint Type: Ball & Socket

Femur, Tibia, Fibula Joint Type: Hinge

Tibia, Fibula, Talus

Joint Type: Hinge

Joint Type: Hinge

Abduction & Adduction Hyperextension Rotation Circum

Postural Deviations

Spine:

Kyphosis: excessive curvature of *thoracic* spine Lordosis: excessive curvature of *lumbar* spine

RESPONSES TO EXERCISE (Short Term)

1. Stimulated increase of mineral uptake in bones due to weight bearing exercise

ADAPTATIONS TO EXERCISE (Long Term)

1. Increased bone strength

2. Increased ligament strength

ADDITIONAL FACTORS

Adduction

Skeletal disease: exercise offsets the risks of arthritis, osteoporosis

Made by Mike Tyler @MikeTylerSport

Flexion	Horizontal Flexion	Horizontal Extension
	130°	45
duction	Horizontal Abduction	Horizontal Adduction
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Age: Young children at risk of greenstick fracture, resistance training may stunt growth (though disputed)