

Movement from one place to another (humans Muscular + Skeletal systems)

Skeletal Function of Bones -

Support - (spine)

Protection - (skull)

Anchorage for muscles (tendon connection)

Leverage (joint)

Production of blood cells (bone marrow)

Storage of Calcium (Ca) + Phosphorus (P)

Cartilage

Flexible (ears)

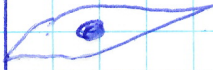
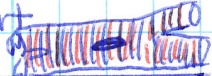

Support (tips of bones, nose + trachea)

cushioning (between joints)

* Most of an embryo's skeleton. Ossification - build up of hard bone by deposits of Ca and P

Ligament - connective tissue that holds bone to bone at a joint.

Muscles Three types with different functions

Type	How they work	Patterning	Nucleus	Shape	Where
Smooth (visceral)	Involuntary	No striations	1/cell	Spindle 	Digestive system blood vessels, bronchi
Cardiac	Involuntary	Striated (Banded)	1/cell	cylindrical branched 	Heart
Skeletal	Voluntary	Striated (Banded)	many cell	cylindrical 	attached to skeleton

skeletal muscles work in antagonistic pairs (Bicep - flexor against Triceps Extensor)

Tendons - connective tissue that holds muscle to bone

Endoskeleton vs Exoskeleton

Internal Bone

Active grows with organism repair

Humans



External chitin

Dead - have to molt to grow

Bugs

