

Skeletal System Notes

The Skeletal System

- **Bones – 206**
- **Ligaments** – attach bone to bone
- **Tendons** – attach bone to muscle

Cartilage

- Tough, but can bend & twist
- Many bones begin as cartilage/some remain
- Most bone is formed by 25

5 Functions of a Skeleton

Shape &
support

movement

Protect
organs &
tissue

Stores
materials

Produces
blood
cells

Muscles pull
bone by
contracting

Backbone
protects
spinal
cord

Long bone
produce
blood cells

Structure of Bone

- **Living tissue** (nerves, bone-forming cells, blood vessels)
- **Hard (calcium & phosphorus)**
- Longest bone (**femur**)
- **Marrow** (found in long bones)
 1. **yellow**: contains fat & blood vessels
 2. **Red** : makes blood cells

Structure of Bone

- **Knobs at end** – spongy bone with lattice-like structure which makes it strong without extra weight
- **canals** – pipelines for blood vessels & nerves (bone needs food & oxygen)