

**What are the functions of bones?**

1. support and protection
2. movement
3. a  $\text{Ca}^{2+}$  (and  $\text{PO}_4^{3-}$ ) store
4. a bone marrow store

**what are the components of the bone's matrix?**

1. type 1 collagen fibres (~90-95%)
2. some proteoglycans (~5%)

**what is the main function of collagen?**

provides the tensile strength

**what is the main function of proteoglycans?**

provide the compressive strength

**what are the two types of bones?**

1. Compact bone (aka cortical bone) → dense, stiff structure
2. Trabecular bone (aka cancellous or spongy bone) → spongy, light structure

**What is the porosity of the compact bone?**

low porosity (5-25%)

**What is the porosity of the trabecular bone?**

high porosity (up to 70%)

**where can u find cortical and trabecular bone?**

In long bones cortical bone forms the shaft → diaphysis

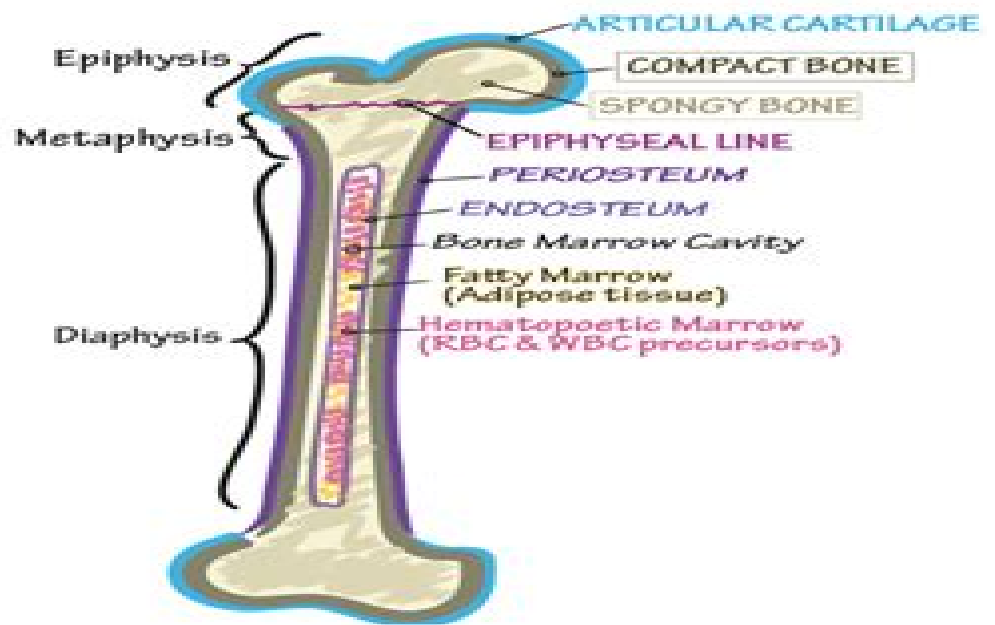
Trabecular bone is found at the ends → epiphysis/metaphysis

**What is between the epiphysis and the metaphysis?**

the epiphyseal growth plate

**how does the growth of the long bones occur?**

Growth of the long bones occur at the growth plate until ~18 when it fuses with the metaphysis

**What is ossification?**

During fetal life, bones are modelled in cartilage (type 1 collagen) and then mineralized / the natural process of bone formation.

**What controls the cartilage proliferation at the growth plate and elongation of the bones?**

1. growth hormone
2. insulin-like growth hormone (IGF-1)

**what happens once growth plate fuses?**

cartilage proliferation and elongation stop  
vascularisation and ossification of the bone start

**what is the unit of bone growth?**

the osteon

**what is an osteon?**

a series of concentric circles of collagen deposition around a blood vessel

# Bone Study Guide Answers

**Patricia Brown**



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