

What are the functions of bones?

1. support and protection
2. movement
3. a Ca^{2+} (and 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

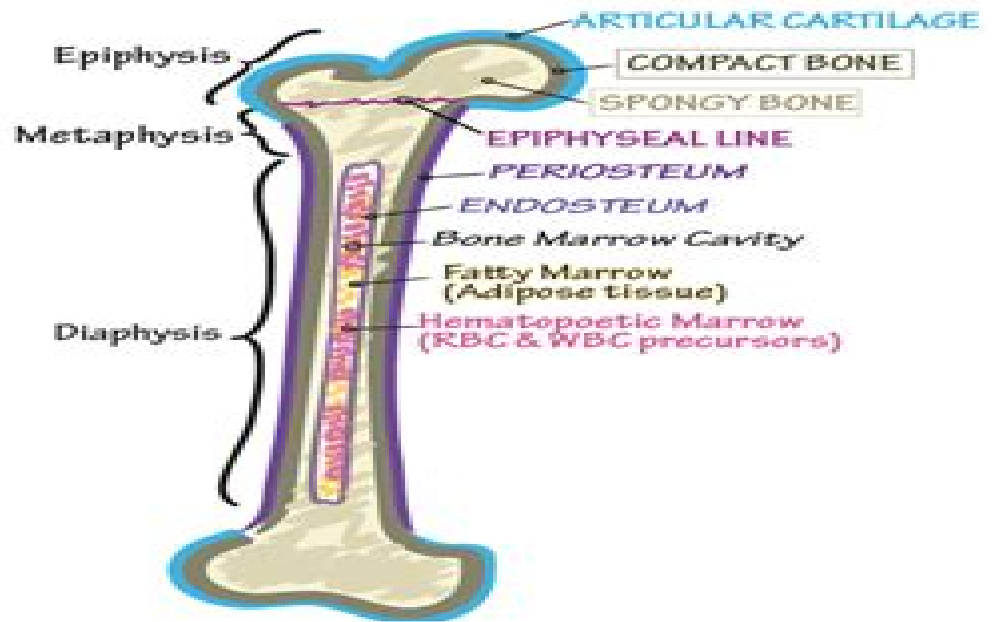
Trabecular bone is found at the ends → epiphysis/metaphysis

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

Ying Liu



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Table of Contents Bone Study Guide Answers

1. Understanding the eBook Bone Study Guide Answers
 - The Rise of Digital Reading Bone Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Bone Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bone Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bone Study Guide Answers
 - Personalized Recommendations
 - Bone Study Guide Answers User Reviews and Ratings
 - Bone Study Guide Answers and Bestseller Lists
5. Accessing Bone Study Guide Answers Free and Paid eBooks
 - Bone Study Guide Answers Public Domain eBooks
 - Bone Study Guide Answers eBook Subscription Services
 - Bone Study Guide Answers Budget-Friendly Options
6. Navigating Bone Study Guide Answers eBook Formats

- ePub, PDF, MOBI, and More
- Bone Study Guide Answers Compatibility with Devices
- Bone Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bone Study Guide Answers
 - Highlighting and Note-Taking Bone Study Guide Answers
 - Interactive Elements Bone Study Guide Answers
- 8. Staying Engaged with Bone Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bone Study Guide Answers
- 9. Balancing eBooks and Physical Books Bone Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bone Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bone Study Guide Answers
 - Setting Reading Goals Bone Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bone Study Guide Answers
 - Fact-Checking eBook Content of Bone Study Guide Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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