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Case Study: Bone Physiology

The extracellular matrix of bone (osseous tissue) is comprised of about 15% water, 30% organic collagen fibers, and 55% inorganic minerals salts. During the process of calcification, the mineral salts (calcium phosphate, calcium hydroxide, and other ions) combine to form crystals of hydroxyapatite that harden around a framework of collagen fibers. The presence of collagen fibers and mineral salts give bone its characteristic properties of hardness, strength, and flexibility.

ACTIVITY 1: VISUAL COMPARISON OF BONES

Pre-Exercise Questions

1. Predict what properties of bone are due to the presence of collagen fibers.
2. Predict what properties of bone are due to the presence of mineral salts like hydroxyapatite.

Materials

- 3 chicken bones: 1 raw, 1 soaked in vinegar for ____ days, 1 baked in an oven.

Procedure

1. Observe a bone that has not been altered.
2. Observe a bone that has been soaked for an extended time in vinegar (a weak acid).
3. Observe a bone that has been baked in the oven at a high temperature.

Questions

Based on your observations, answer the following questions.

Vinegar Soaked Bone

1. Which component of bone was removed by the vinegar? Vinegar dissolves the calcium in the bone. This causes the bone to bend and twist.

Case Study Answers For Anatomy And Physiology

Patrick Vollmar



Case Study Answers For Anatomy And Physiology:

Whispering the Secrets of Language: An Mental Journey through **Case Study Answers For Anatomy And Physiology**

In a digitally-driven world where screens reign great and instant conversation drowns out the subtleties of language, the profound secrets and psychological nuances concealed within phrases frequently go unheard. Yet, nestled within the pages of **Case Study Answers For Anatomy And Physiology** a interesting fictional value sporting with fresh thoughts, lies an extraordinary journey waiting to be undertaken. Composed by a skilled wordsmith, that charming opus invites viewers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within ab muscles cloth of each and every word. Within the mental depths of the emotional review, we shall embark upon a sincere exploration of the book is core styles, dissect their interesting writing fashion, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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