**Lesson Title: Bone Growth and Development**

**Unit: 5**

TEKS: 130.7(C) 11 (b)(c) 1 (a)(b) 2(g) 15 (b)(c)

OBJECTIVES

The student will be able to:

1. Evaluate bone density
2. Observe demineralization in chicken bones
3. Fill out record books

TEACHING MATERIALS, TOOLS, AND EQUIPMENT

PPT: Bone growth and development

TEACHING PROCEDURE

|  |  |
| --- | --- |
| Interest Approach/Anticipatory Set | Teacher Notes |
| Use this area as an introduction of what will be done to get the students ready to learn.  Consider some of the following:  1. Link – http://www.youtube.com/watch?v=OJbcJVmgvz4  2. Motivation – Ask the students the state of their bones  TRANSITION – | Ask questions to students |

|  |  |
| --- | --- |
| Teaching Plan and Strategy / Presentation of New Material | Teacher Notes |
| Objective 1: Evaluate bone density   * Students will compare the two bones   Objective 2: Observe demineralization in chicken bones   * Because the bones have been backed and soaked in vinegar, minerals needed for healthy bones have been broken down   Objective 3: Fill out record books   * Students will fill out the necessary information in their record books |  |

ENGAGEMENT

Students will make a bone remodeling chart that should help them understand the different phases of bone remodeling.

EVALUATION

Short Q&A

ADDITIONAL MATERIALS

This lab requires preparation **7 days** ahead of time

College & Career Readiness Standards: II.C.1; II.E.7 (Write in the number/letters already crosswalked for your unit)

©Texas Education Agency, 2011