**Lesson Title: Fetal development lab**

**Unit: 5**

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

OBJECTIVES

The student will be able to:

1. Observe pictures of both cow and human embryos/fetuses.
2. Interpret graphs to determine when most of the changes in size and mass occur during

the gestation period.

1. Contrast trends in growth and development using length and mass.
2. Fill out record books

TEACHING MATERIALS, TOOLS, AND EQUIPMENT

* Laminated photos of developing bovine (Holstein) fetuses
* Laminated photos of human development
* String
* Ruler
* Calculator

http://www.ansci.wisc.edu/jjp1/ansci\_repro/lab/lab12\_03/crown-rump\_analysis3.html

TEACHING PROCEDURE

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| --- | --- |
| 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 – We know all the different tissues, but how do they work together to form a fetus?2. Motivation – How many weeks do you think it takes for a baby to develop finger prints? (9 weeks)TRANSITION –  | Ask questions to students |

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| --- | --- |
| Teaching Plan and Strategy / Presentation of New Material | Teacher Notes |
| Objective 1: Observe pictures of both cow and human embryos/fetuses.Objective 2: Interpret graphs to determine when most of the changes in size and mass occur during the gestation period. This will be done by measure in fetus to obtain the crown rump length, then using the length to correctly read the graph and determine the mass.Objective 3: Contrast trends in growth and development using length and mass. This is done by have the student use the data collected to observe and compare differences in size, length, mass and days from the data they collected.Objective 4: Fill out record books* Students will fill out the necessary information in their record books
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ENGAGEMENT

Students will be measuring the length and mass of fetus’.

EVALUATION

ADDITIONAL MATERIALS

 Power point, Crossword hand out, technology.

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

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