**Advanced Animal Science – Growth and Performance – Unit 5 Overview**

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| Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| Overview of Growth and DevelopmentThe student will be able to:-Define growth-Explain the three ways growth can occur-Compare and contrast differences in true growth and fattening- Explain differences in animal growth from past and present PPT: Intro to growth and developmentActivity: KWL and animal timeline | Growth and Development of TissuesThe student will be able to: -Classify different tissues by their shape and number-Know the four different types of tissues-Compare and contrast different functions of tissuesPPT: Tissues | Cell Tissue LabThe student will be able to:-Spool DNA using wheat germ-Observe different cell parts from human check cells-Observe different cell parts from a red onion-Observe the structure of a stomach cellActivity: Cell Tissue Lab-See additional PDF  | Embryonic growth and developmentThe student will be able to:-Explain prenatal development from fertilization to birth-Understand different biological process’ in all phases of prenatal development-Define key vocabulary-Chart different phases in somitogenesisPPT: Embryonic Growth | Fetal development labThe student will be able to:-Observe pictures of both cow and human embryos/fetuses-Interpret graphs to determine when most of the changes in size and mass occur during the gestation period-Constrast trends in growth and development using length and massActivity: Fetal development lab-Fill in record books  |
| Day 6 | Day 7 | Day 8 | Day 9 | Day 10 |
| MuscleStudent will be able to:-Define myogenesis-Explain different ways myogenesis occurs-Define muscle growth-Explain different ways muscle growth occurs-Compare and contrast myogenesis and muscle growthActivity: Writing the two major definitions within this lesson | Adipose TissueStudent will be able to:-Know the four locations fat is deposited-Explain adipogenesis-Explain lipogenesis-Compare and contrast the different factors affecting lipid metabolism | Muscle and Fat Tissue LabStudent will be able to:-Label muscle tissue across species-Label fat tissue across species-Compare and contrast differences in true growth and fattening-Explain differences in animal growth from past and presentActivity: Rotational Lab Stations | Bone growth and developmentStudent will be able to:-List types of bone-Know the function of cells involved in bone growth-Describe the two methods of bone formation in detail-Explain the factors that affect bone growth |  |
| Day 11 |  |  |  |  |
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