

# Livestock Production - 5th 6 Weeks Lesson Plan

## TEKS Standards Addressed:

- **130.3(c)(4):** Explain livestock genetics, breeding, and performance data.
- **130.3(c)(5):** Understand animal growth and development.
- **130.3(c)(6):** Explain best practices for animal health and medication administration.
- **130.3(c)(7):** Analyze livestock facilities, management, and care.
- **130.3(c)(10):** Discuss the impact of regulations and advancements in livestock science.

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## Week 1: Temple Grandin & Animal Behavior

### Monday: No School (Student Holiday)

- No lesson.

### Tuesday-Friday: Temple Grandin & Animal Behavior

- **Objective:** Understand the impact of Temple Grandin's work on livestock handling and welfare.
- **Activity:**
  - Watch the *Temple Grandin* movie and biography.
  - Class discussion on animal handling and welfare innovations.
  - Reflection journal: How did Temple Grandin's work change livestock handling?
- **Assessment:** Students submit a one-page reflection on the movie and biography.

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## Week 2: Livestock Performance Data

### Monday-Friday: Analyzing Livestock Performance

- **Objective:** Learn how to interpret livestock performance data for sheep, pigs, and cattle.
  - **Activity:**
    - Data analysis lab: Compare performance metrics of sheep, pigs, and cattle.
    - Students work in groups to interpret data trends.
    - Exit ticket: Explain one key takeaway from livestock data review.
  - **Assessment:** Group presentations on findings from livestock performance data.
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## **Week 3: Livestock Growth & Development**

### **Monday-Friday: Growth Stages & Nutrition**

- **Objective:** Understand the factors affecting livestock growth and development.
  - **Activity:**
    - Growth comparison lab: Analyze images and data of different livestock species at various growth stages.
    - Create a growth timeline for a species of choice.
    - Class discussion on environmental and genetic factors affecting growth.
  - **Assessment:** Submit a growth timeline with key developmental milestones.
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## **Week 4: Injection Unit – Livestock Medication & Health**

### **Monday-Friday: Injection Techniques & Safety**

- **Objective:** Learn proper medication administration and livestock health management.
- **Activity:**

- Hands-on practice with syringes (using oranges or practice pads).
- Label reading activity: Identify medication instructions, dosage, and withdrawal times.
- Injection safety game: Students match syringe parts and explain functions.
- **Assessment:** Injection quiz and hands-on injection lab using models.

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## Week 5: Injection Scenarios & Lab Safety

### Monday-Friday: Handling Medication in Livestock

- **Objective:** Apply knowledge of injection techniques in real-life scenarios.
- **Activity:**
  - Case study: Students analyze different livestock illness cases and choose the appropriate treatment.
  - Role-playing activity: Practice administering injections in simulated scenarios.
  - Lab safety walkthrough: Identifying risks and proper procedures in administering medication.
- **Assessment:** Injection scenario worksheet and lab safety checklist completion.

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## Week 6: Antibiotic Use in Livestock

### Monday-Friday: Antibiotics, Regulation & Consumer Impact

- **Objective:** Understand the role of antibiotics in livestock production and their regulations.
- **Activity:**
  - Vocabulary matching: Define key terms related to antibiotics.

- Debate: "Should antibiotics be used in livestock production?" (Pros and Cons).
- Infographic creation: Students design an informational poster on the Veterinary Feed Directive.
- **Assessment:** Students submit an antibiotic infographic to showcase understanding.