

Agricultural Science I

Curriculum Guide: *Introduction to Swine Production*

Unit Objective:

Students will demonstrate their knowledge of swine production by preparing a time line that shows what happens from conception to retail in the swine industry.

Show-Me Standards: 1.8, SC3

Reference:

Introduction to Swine Production. University of Missouri-Columbia, Instructional Materials Laboratory, 1997.

Students will use additional outside sources to complete this activity.

Instructional Strategies/Activities:

- Students will engage in study questions in lessons 1 through 7.
- Students will complete AS 5.2, Swine Antibiotics; AS 6.1, Ear Notching; and AS 7.1, Debate-Swine Production and the Environment.
- Additional activities that relate to the unit objective can be found under the heading “Other Activities” in the following locations: p. 59 and p. 73.

Performance-Based Assessment:

Students will be asked to construct a time line of a pig’s life from conception to retail (packaging). Students need to include any vaccinations given to the mother during pregnancy or the pig itself, any changes in feed as the pig matures, and management practices performed on the pig. In addition, students will include explanations or benefits of each management practice.

Students will be assessed on the presentation of the time line and the content and overall quality of the events and explanations.

**Introduction to Swine Production
Instructor Guide**

The instructor should assign the performance-based assessment activity at the beginning of the unit. Students will work toward completing the activity as they progress through the unit lessons. The assessment activity will be due at the completion of the unit.

1. Have students prepare a time line that shows the care and management practices in a pig's life from conception to retail.
 - a. Give the students the option of working individually or in pairs.
 - b. Students may use material in the unit but must use additional outside material to complete their time line.
 - c. Students may not use the source material word for word and must provide a complete bibliography of their sources along with their time line.
 - d. Students can create their time line on the computer or draw it by hand.
2. Students need to include any vaccinations given to the mother during pregnancy or the pig itself.
 - a. Vaccinations should be listed in the order they are given.
 - b. They also need to include any restrictions on the medication and withdrawal time that must be observed for harvesting.
3. The student must document any changes in feed rations as the pig matures. This may include, but is not limited to, the following:
 - ☐ Weight or amount of feed given
 - ☐ Protein percentages
 - ☐ Additives
4. Students must list management practices performed on the pig and at what age they are to be done.
 - a. Their time line should at least include the following:
 - ☐ Clipping of needle teeth
 - ☐ Docking of tails
 - ☐ Castration
 - ☐ Notching of ears
 - b. An explanation or benefit of each management practice should also be included. For example, clipping of needle teeth prevents damage to the sow's udder.
5. Students will be assessed on the presentation of the time line and the content and overall quality of the events and explanations.

**Introduction to Swine Production
Student Handout**

1. You will prepare a time line that shows the care and management practices in a pig's life from conception to retail.
 - a. Your instructor will decide if you work individually or in pairs.
 - b. You may use material in the unit but must use additional outside material to complete the time line.
 - c. You may not use the source material word for word and must provide a complete bibliography of the sources along with your time line.
 - d. You can create the time line on the computer or draw it by hand.
2. You will need to include any vaccinations given to the mother during pregnancy or the pig itself.
 - a. Vaccinations should be listed in the order they are given.
 - b. You will also need to include any restrictions on the medication and withdrawal time that must be observed for harvesting.
3. You must document any changes in feed rations as the pig matures. This may include, but is not limited to, the following:
 - ☐ Weight or amount of feed given
 - ☐ Protein percentages
 - ☐ Additives
4. You must list management practices performed on the pig and at what age they are to be done.
 - a. Your time line should at least include the following:
 - ☐ Clipping of needle teeth
 - ☐ Docking of tails
 - ☐ Castration
 - ☐ Notching of ears
 - b. You will need to include an explanation or benefit of each management practice. For example, clipping of needle teeth prevents damage to the sow's udder.
5. You will be assessed on the presentation of the time line and the content and overall quality of the events and explanations.

Agricultural Science I

Introduction to Swine Production Scoring Guide

Name _____

| Assessment Area | Criteria | 0 Points | 1 Point | 2 Points | 3 Points | 4 Points | Weight | Total |
|--|---|----------------|-----------------|----------------|----------------|--------------------|--------|-------|
| Content of Explanations and Events | <input type="checkbox"/> Information is complete <input type="checkbox"/> Facts are accurate <input type="checkbox"/> Facts are in correct order <input type="checkbox"/> Well organized | 0 criteria met | 1 criterion met | 2 criteria met | 3 criteria met | All 4 criteria met | X 15 | |
| Presentation of Time Line | <input type="checkbox"/> Well organized <input type="checkbox"/> Neat <input type="checkbox"/> Creative <input type="checkbox"/> Easy to follow | 0 criteria met | 1 criterion met | 2 criteria met | 3 criteria met | All 4 criteria met | X 7.5 | |
| Technical Considerations for Explanations and Events | <input type="checkbox"/> Spelling <input type="checkbox"/> Grammar <input type="checkbox"/> Punctuation <input type="checkbox"/> Capitalization | 0 criteria met | 1 criterion met | 2 criteria met | 3 criteria met | All 4 criteria met | X 2.5 | |
| TOTAL | | | | | | | | |

Final Assessment Total _____/100 pts.

Comments:

