

Cow Model

Curriculum Overview

Designed for:

- High school students
- Post-secondary students
- Workforce development students

Length:

This 3-hour curriculum is comprised of three lessons. With supplemental materials, this curriculum can be adapted to a longer block of time.

Goal:

To help participants learn the anatomy and physiology of dairy and beef cows through a variety of activities and use of the cow model.

Synopsis:

This model and accompanying curriculum provide general anatomy and physiology information about beef and dairy cows. This program will provide key anatomical terms, and functions of beef and dairy cows. The curriculum also provides information about bovine two-ruminant digestive tract and cow and bull reproductive systems. The lessons include facilitator instructions, slide presentations, and quizzes. The lessons and activities include objectives, materials required and approximate class time.

Curriculum Components:

- Teacher's guide - Complete lessons, including detailed steps of activities, time and materials needed, student handouts and instructor information to teach the lesson
- Student materials
- Assessment tools
- PowerPoint presentation slides

Learning Objectives:

Lesson 1 - Beef and Dairy Anatomy

- Correctly name and identify the location of external beef body parts
- Correctly name and identify the location of external dairy body parts

Lesson 2 - Two-Ruminant Digestive Tract

- Name, locate, and describe the functions of the parts of a ruminant digestive system.
- Correctly label the digestion path as it travels through the ruminant system.

Lesson 3 - Cow and Bull Reproductive Systems

- Correctly identify terms associated with cow and bull reproduction.
- Name, locate and describe the functions of the parts of male and female reproductive system.
- Identify the primary male and female reproductive structures and their functions.