



Agriculture Program Program Implementation Guide

Engage your students in career exploration and help them develop 21st Century skills.

Scan me

Visit www.realityworks.com/animal-science-program-implementation/ to view product and program details.



Animal Models:

The large and small animal models in this package all separate at the midline to reveal removable parts and feature realistic, full-color details.

Beef & Pork 3D Meat Cuts Poster

This 3D poster depicts primal beef and pork meat cuts in realistic, full-color detail.

Bovine Injection Simulator

Use this simulator to teach proper cattle injection techniques, ear tagging, and growth implant basics.

Bovine Breeder™ artificial insemination simulator

This unique learning aid teaches correct cervix manipulation, AI gun positioning and pregnancy palpation. It allows students to see inside the reproductive tract to identify reproductive system landmarks.

Cow Anatomy 3D Flip Chart

This portable relief chart splits down the middle and opens to reveal 3 separate bovine anatomical illustrations.

Agriculture Career Scenario Cards (10-pack)

These pathway/occupation-specific workplace scenario cards cover real-world situations in agriculture careers.

Plant Mini Educational Hydroponics System Class Pack (5-pack)

Allow individuals or small-groups to grow a variety of plants. Use the 5 desktop-size systems to practice 3 hydroponics growth methods.

Cow and Pig Ear Simulation

Address proper ear care and identification while providing safe, consistent ear tagging and notching practice.

Calf Simulator

Use our multi-functional Calf Simulator to give students hands-on practice addressing a variety of major calf issues.

Soybean Plant Model

Teach students about the different stages of soybean plant growth. This life-size replica includes the roots and nodes of the plant as well as the stalk, leaves, buds, and pods.

Swine Breeder™ artificial insemination simulator

Use this life-sized female swine simulator to teach proper swine AI and birthing techniques. Students can sit on this sturdy, portable simulator to check for standing heat and replicate artificial insemination techniques.

Bovine Milking Udder Simulator

Use this hands-on tool to teach proper udder care as well as milk disease and infection treatment and prevention.

Create a Custom Pathway Package

Choose hands-on learning aids and curricula that meet your unique program needs.

All products can be purchased separately

Agriculture Program Curricula Overview

All curricula include lesson plans, presentation slides, assessments and other student materials.

Experiential Learning Tools	Curriculum Length	Lesson Topics	
Bovine Injection Simulator	2 hours	• Bovine Injections	• Bovine Growth Implants
Bovine Breeder™ artificial insemination simulator	3-5 hours	• Cow and Bull Reproductive Systems • Basic Principles of AI	• AI Technique • Pregnancy Palpation
Cow Anatomy 3D Flip Chart	3 hours	• Beef and Dairy Cow Anatomy • Ruminant Digestive Tract	• Cow and Bull Reproductive Systems
Calf Simulator	3-5 hours	• Basic Calf Care • Castration	• Feeding
Bovine Milking Udder Simulator	4 hours	• Development of the Bovine Udder • Structure of the Bovine Udder	• Milking Procedure • Managing Somatic Cell Counts
Bovine AI Cervix Kit	2-3 hours	• Cow and Bull Reproductive Systems • Basic Principles of AI	• AI Technique
Cow and Pig Ear Simulation	2 hours	• Cow Ear Tagging	• Pig Ear Notching
Swine Breeder™ artificial insemination simulator	3-5 hour	• Swine Reproductive Systems • Basics of Artificial Insemination	• Proper Insemination Techniques
Plant Mini Educational Hydroponics System Class Pack (5-pack)	2 hours	• What is Hydroponics	• Plant Life
Plant Lab and Plant Producer Educational Hydroponics Systems	2 hours	• Introduction to Hydroponics	• Plant Life
Plant Science Kit	10-14 hours	• Introduction to Plant Science • Plant Cell Structure • Leaves, Roots, and Stems • Flowering Plants	• Plant Identification Features • Photosynthesis, Respiration, and Transpiration • Exploring Botany and Plant Science Careers
Soybean Plant Model	1 hour	• Soybean Plant Anatomy	
Corn Stalk Model	2 hours	• Corn Stalk Anatomy	• Common Nutrient Deficiencies
Cat Model	4 hours	• Cat Anatomy and the Five Senses • Cat Digestive and Urinary Systems	• Cat Reproductive System • Cat Respiratory and Circulatory Systems
Chicken Model	1 hour	• Understanding Poultry Anatomy	
Cow Model	3 hours	• Beef and Dairy Cow Anatomy • Ruminant Digestive Tract	• Cow and Bull Reproductive Systems
Dog Model	3 hours	• Dog Anatomy and Physiology • Dog Digestive Tract	• Dog Reproductive System
Goat Model	3 hours	• Goat Anatomy • Goat Digestive Tract	• Goat Reproductive Systems
Horse Model	3 hours	• Horse Anatomy • Horse Digestive System	• Horse Reproductive Systems
Pig Model	3 hours	• Pig Anatomy and Pork Cuts • Pig Digestive Tract	• Pig Reproductive Systems
Dissected Fetal Pig	1 hour	• Dissected Fetal Pig Anatomy	
Rabbit Model	1 hour	• Basic Anatomy of a Rabbit	
Sheep Model	3 hours	• Sheep Anatomy • Sheep Digestive Tract	• Sheep Reproductive Systems
Suture Kit	1 hour	• Suturing Basics	