

Innovative learning tools for skills training

# Agriculture



▶ Career Exploration  
▶ Soft Skills



▶ Animal & Veterinary Science  
▶ Bovine & Swine Skills



▶ Plant & Soil Science



▶ Food Science & Meat Evaluation



▶ Welding & Trade Skills  
▶ Agricultural Mechanics

2024

Program Catalog

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# AGRICULTURE STUDENT RECRUITMENT SUCCESS STORY

Watertown-Mayer High School, Minnesota

Nathan Anderson is in his fourth year of teaching a variety of elective agriculture classes. This makes student recruitment a high priority, leading him to seek Perkins funding for Realityworks' eye-catching training tools. These same tools proved to be popular content for his growing TikTok channel (@mnagteacher), which he uses to engage students and recruit them to his classes. He found that Realityworks' simulators not only help his TikTok views, but also pique student interest in his classes.



***"I tend to get the kids that don't excel so well in subjects like math and English, so the hands-on learning makes my classes so much more engaging for everyone, especially those kids – they can really fly high."***

Nathan Anderson - Ag Instructor, FFA Advisor, Trap Coach, Watertown-Mayer High School, MN



**See Watertown-Mayer High School's program and their tools!**

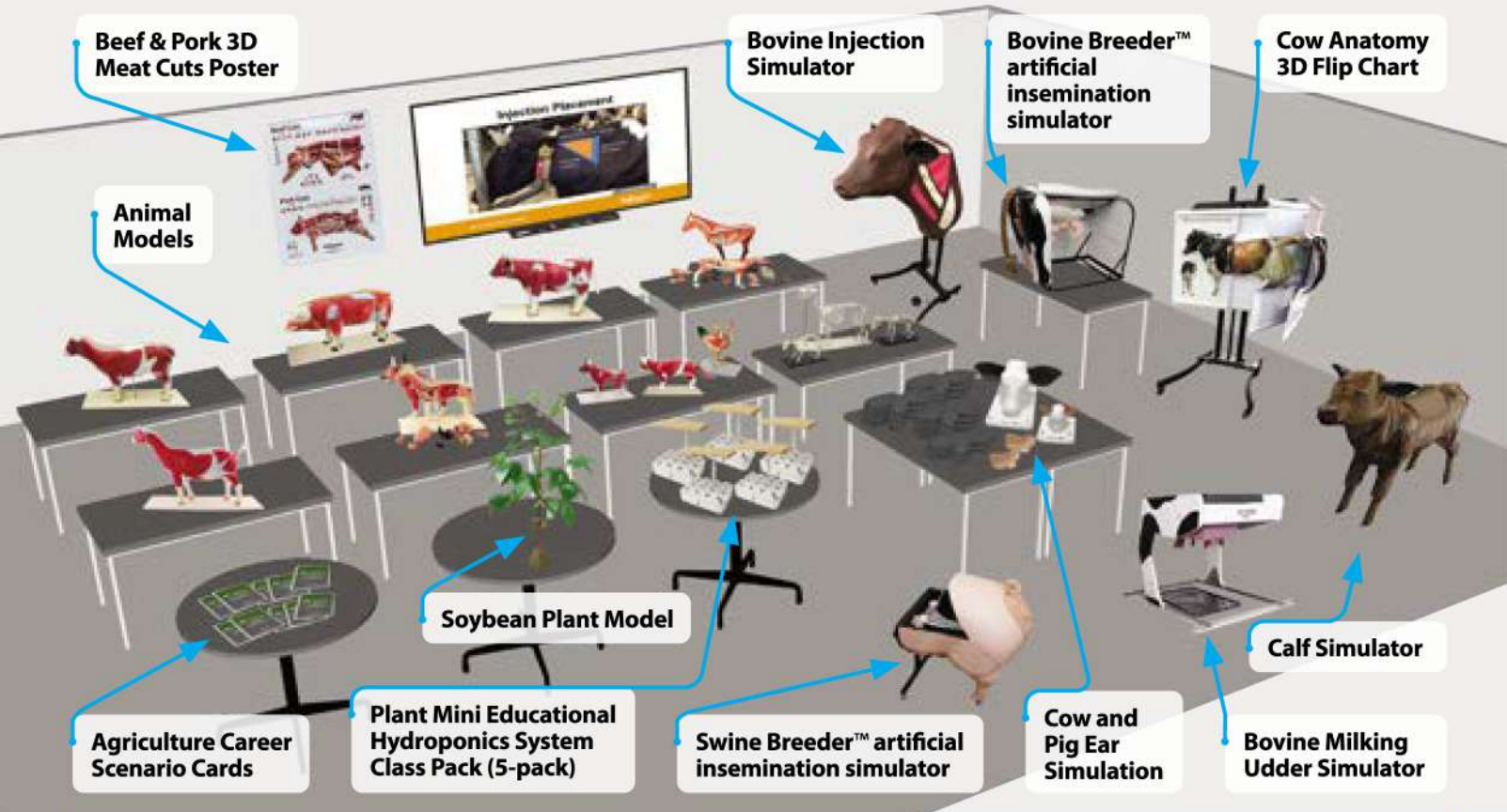


Read the full program story here: [www.realityworks.com/stories/tiktok-teachers-hands-on-tools-recruit-students-to-agriculture-classes/](https://www.realityworks.com/stories/tiktok-teachers-hands-on-tools-recruit-students-to-agriculture-classes/)



# Agriculture Pathway Packages

Hands-on training tools, activities, and lessons to engage students in agriculture, food, and natural resources.



## Animal Systems 2 Package\*

**49-59 hours of course content, 27 hands-on resources:**

Bovine Injection Simulator, Bovine Breeder artificial insemination simulator, Bovine Milking Udder Simulator, Cow Anatomy 3D Flip Chart, Beef and Pork 3D Meat Cuts Poster, Butcher Beef Cut Models, Butcher Pork Cut Models, Swine Litter Processing Simulators, Bovine Fetal Development Models

Animal models: cow, horse, pig, goat, sheep, chicken, ruminant, horse stomach, pig stomach, cow uterus, horse uterus, pig uterus, cat, cat skeleton, large dog, large dog skeleton, small dog, small dog skeleton



## Animal Systems 1 Package\*

**50 hours of course content,  
15 hands-on resources:**

Animal models: cow, horse, pig, chicken, ruminant, horse stomach, pig stomach, cow uterus, horse uterus, pig uterus, cat, cat skeleton, small dog, large dog skeleton, small dog skeleton



**9 hours of course content,  
5 hands-on resources:**

Canine Vet Trainer, Animal Clinic Design Kit, Cat Skeleton Model, Small Dog Skeleton Model, Suture Kit (5-pack)



## Bovine Skills Bundle\*

**5 hands-on resources:**

Cow Model, Calf Simulator, Bovine Breeder artificial insemination simulator, Bovine Fetal Development Models, Bovine Injection Simulator



## Hydroponics Plant System Package\*

**26 hours of course content,  
5 hands-on resources:**

Plant Producer and Plant Lab Educational Hydroponics Systems, Plant Mini Educational Hydroponics System Class Pack (5-pack), Plant Science Kit, RealCareer Food Safety Kit



*NOTICE: Shipping surcharge applies.*

**15-21 hours of course content,  
6 hands-on resources:**

Plant Science Kit, Dicot Flower, Dicot Stem, Corn Grain, Corn Stalk, Soybean Plant



\*Packages include hands-on resources, curricula, presentation slides, activities, and assessments.

## Animal Agriculture Education Kits Package (Includes all of the below kits)

42 hours of course content, 6 hands-on resources

### Beef Cattle Kit

**Includes:**

- 5 sets of Breed ID Flashcards
- 2 posters (Selection and Judging, Feeding and Management)
- 5 sets of Diseases and Parasites Trivia Cards
- 5 beef cattle whiteboards
- Reproductive organ model
- Storage box
- Standards-based, downloadable curriculum
- 90-day limited warranty



### Swine Kit

**Includes:**

- 5 sets of Breed ID Flashcards
- 3 posters (Reproduction, Selection and Judging, Feeding and Management)
- 5 sets of Diseases and Parasites Trivia Cards
- 5 swine whiteboards
- Storage box
- Standards-based, downloadable curriculum
- 90-day limited warranty



### Chicken Kit

**Includes:**

- 5 sets of Breed ID Flashcards
- 2 posters (Selection and Judging, Feeding and Management)
- 5 sets of Diseases and Parasites Trivia Cards
- Chicken egg cycle exploration set
- 5 chicken whiteboards
- Storage box
- Standards-based, downloadable curriculum
- 90-day limited warranty



### Sheep Kit

**Includes:**

- 5 sets of Breed ID Flashcards
- 2 posters (Selection and Judging, Feeding and Management)
- 5 sets of Diseases and Parasites Trivia Cards
- Sheep Gestation Wheel
- 5 sheep whiteboards
- Storage box
- Standards-based, downloadable curriculum
- 90-day limited warranty



### Horse Kit

**Includes:**

- 5 sets of Breed ID Flashcards
- 3 posters (Feeding and Management, Selection and Judging, Reproduction)
- 5 sets of Diseases and Parasites Trivia Cards
- 5 horse whiteboards
- Storage box
- Standards-based, downloadable curriculum
- 90-day limited warranty



### Goat Kit

**Includes:**

- 5 sets of Breed ID Flashcards
- 2 posters (Selection and Judging, Feeding and Management)
- 5 sets of Diseases and Parasites Trivia Cards
- Goat Gestation Wheel
- 5 goat whiteboards
- Storage box
- Standards-based, downloadable curriculum
- 90-day limited warranty



**Kit Curriculum** (each kit includes specific animal lessons: beef cattle, swine, chicken, sheep, horse, goat, dog and cat kits)

- Curriculum lesson topics:
  1. Breeds
  2. Feeding and Management
  3. Diseases and Parasites
  4. Reproduction
  5. Body Systems
  6. Selection and Judging
  7. Marketing/Careers/Training
- Teaching hours: 7 (each)
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Agriculture, Food, and Natural Resources Career Pathway Content Standards

## Canine Vet Trainer

Provide consistent, hands-on practice caring for a male canine with this realistic trainer.

### Use this trainer to practice:

- Restraint holds
- Venipuncture
- Catheterization
- Bladder palpation
- Subcutaneous and intramuscular injections
- Lymph node palpation

### Features:

- Limbs move naturally
- Sits and stands
- Fits standard muzzles
- Approximately the size of a mid-sized Labrador Retriever

### Includes:

- Canine Vet Trainer
- IV stand and bag
- Syringe with 22-gauge needle
- 3 removable bladders (empty, full, bladder stones)
- 8 Fr catheter
- 8 lymph node markers
- Collar with tag
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 36" x 12" x 18"
- Weight: 6 lbs.

### Canine Vet Trainer

- Curriculum lesson topics:
  1. Dog Anatomy
  2. Proper Injection and Venipuncture Techniques
  3. Bladder and Urinary Issues
- Teaching hours: 3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards



## NEW - Feline Vet Trainer

Practice restraint holds, CPR, blood draws, and other care skills with this realistic male cat model.

### Includes:

- Feline Vet Trainer
- IV bag and stand
- Syringe with 20-gauge needle
- 3.5 Fr catheter
- 100 CPR bags
- 2 CPR bag replacement hooks
- Luer lock syringe
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Use this trainer to practice:

- Restraint holds
- Chest compressions
- Mouth-to-snout CPR
- Palpation
- Blood draws
- Catheterization
- Bandaging
- Injections

### Specifications:

- Dimensions: 18.5" x 14" x 6"
- Weight: 4.5 lbs.

### Feline Vet Trainer

- Curriculum lesson topics:
  1. Cat Care and Handling
  2. Performing CPR on a Cat
  3. Injections, Venipuncture, and Catheterization
- Teaching hours: 3-4
- Includes: Presentation slides, student activities, and pre- and post-assessments



## NEW - Dog Kit

### Includes:

- 5 sets of Breed ID Flashcards
- 5 sets of Diseases and Parasites Trivia Cards
- 4 posters (Feeding and Management, Reproduction, Selection and Judging, Careers in the Canine Industry)
- 5 dog whiteboards
- Storage box
- Standards-based, downloadable curriculum
- 90-day limited warranty



## NEW - Cat Kit

### Includes:

- 5 sets of Breed ID Flashcards
- 5 sets of Diseases and Parasites Trivia Cards
- 3 posters (Feeding and Management, Reproduction, Selection and Judging)
- 5 cat whiteboards
- Storage box
- Standards-based, downloadable curriculum
- 90-day limited warranty



**NOTICE:** See Dog Kit and Cat Kit curriculum information on previous page.

## NEW - Canine Auscultation Trainer

Give students safe, hands-on canine veterinary skills practice with this life-size trainer.

### Use this simulator to practice:

- Stethoscope placement
- Auscultation of heart, lung, and bowel sounds
- Restraint holds

### Includes:

- Canine Auscultation Trainer
- RealityScope (stethoscope attachment)
- Smart device with app
- Soft-sided storage case
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Features:

- Includes a smart device and app programmed with 22 lifelike sounds:
  - Heart sounds: Healthy, slow, and fast heartbeat; fast and slow arrhythmia; continuous, diastolic, and systolic murmurs; patent ductus arteriosus; and atrial fibrillation
  - Lung sounds: Slow, normal, fast, faint, heavy, wheeze, crackles, stridor, and stertor breathing
  - Bowel sounds: Healthy, hyperactive, and hypoactive
- Limbs move naturally
- Sits, stands and lies down
- Fits standard muzzles
- Approximately the size of a mid-sized Labrador Retriever

### Specifications:

- Dimensions: 30" x 10" x 24"
- Weight: 9.6 lbs.



**NOTICE:** Stethoscope not included.

### Canine Auscultation Trainer

- Curriculum lesson topics:
  1. Proper Use of a Stethoscope
  2. Auscultation of the Heart, Lungs, and Bowels
- Teaching hours: 3-4
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Vet and Animal Science Standards

## Animal Clinic Design Kit

Explore concepts necessary for veterinary technician careers with this interactive kit, which includes enough components for up to five small groups to collaborate simultaneously.

### Use this kit to:

- Explore animal welfare and animal husbandry concepts
- Understand animal clinic design best practices
- Explore veterinary technician careers

### Includes:

- 5 microfiber cloths
- 5 dry erase markers
- 5 dry erase design boards with gridlines
- 5 sets of scaled vet furniture tiles
- Storage box
- Student key card
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Animal Clinic Design Kit

- Curriculum lesson topics:
  1. Career Exploration on Veterinary/Animal Care Pathways
  2. Animal Welfare Act and Regulations to Know for Vet Clinic Design
  3. Best Practices for Vet Clinic Design
- Teaching hours: 3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Agriculture, Food, and Natural Resources Career Cluster Content Standards

## Bovine Injection Simulator

Give students hands-on practice caring for a bovine with this life-size simulator.

### Use this simulator to practice:

- Jugular blood draws
- IV administration
- Intramuscular injections
- Ear tagging
- Growth implant placement
- Bovine haltering

### Includes:

- Bovine head/neck and shoulder region
- Removable training cover that maps out specific body landmarks for proper injections
- Vein fluid system
- Adjustable stand with wheels
- Pulse foot pump
- 10 pairs of Bovine Ears
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 32" x 40" x 68"
- Weight: 40 lbs.



**NOTICE:** Injection and tagging tools not included.

**Bovine Injection Replacement Ears (10 Pairs)** \$229 - 42010455

### Bovine Injection

- Curriculum lesson topics:
  1. Introduction to Bovine Injections
  2. Bovine Growth Implants and Ear Tagging
- Teaching hours: 2-3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Suture Kit (5-pack)

This kit enables students to learn proper suture techniques through repeated practice.

### Includes:

- Suture skin with holder
- Carrying case for instruments
- Scissors, needle driver, scalpel handle, curved needle driver, toothed tweezers, scalpels
- 2/0 suture
- 3/0 suture
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Suturing

- Curriculum lesson topic:
  1. Suturing Basics
- Teaching hours: 1-2
- Includes: Presentation slides, student activities, and pre- and post-assessments

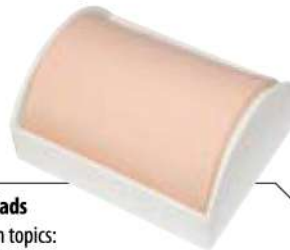
## Large Injection Pad

Students can see a "bleb" or "wheal" on this large injection pad, which features a realistic shape that divides into three layers: skin, subcutaneous tissue, and muscle.

### Includes:

- Injection pad on fluid collection tray
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

**NOTICE:** Liquids may be used.



### Large Injection Pads

- Curriculum lesson topics:
  1. Intradermal Injections
  2. Subcutaneous Injections
  3. Intramuscular Injections
  4. Patient-Focused Care
- Teaching hours: 3
- Includes: Presentation slides, student activities, and pre- and post-assessments

## Small Injection Pad

This wearable injection pad includes a pliable, skin-like surface and plastic protective back.

### Includes:

- Wearable injection pad with plastic protective back and hook and loop strap
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

**NOTICE:** Not intended to be used with liquid.



### Small Injection Pads

- Curriculum lesson topics:
  1. Intramuscular Injections
  2. Patient-Focused Care
- Teaching hours: 2
- Includes: Presentation slides, student activities, and pre- and post-assessments



## Calf Simulator

Give students hands-on practice addressing the needs of a vulnerable calf with this life-size simulator.

### Use this simulator to practice:

- Tube feeding
- Ear tagging
- Hormone implantation
- IV and subcutaneous injections
- Tail blood draws
- Castration
- Haltering

### Features:

- Pliable, removable, replaceable ears
- Functioning mouth with pliable tongue
- Jugular pulse
- Calf scrotum with removable testicles
- Manual foot pump and internal liquid system mimics blood flow and heartbeat, allowing for vein location and blood draws
- Colored tubes assist with proper tube feeding
- 2 removable navels allow students to assess infection

### Includes:

- Calf simulator
- Feeding tube and bag
- Removable testicles
- Removable navels
- 10 pairs of calf ears
- Plastic scalpel
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Specifications:

- Dimensions: 46" x 12" x 40"
- Weight: 30 lbs.

### Calf Systems

- Curriculum lesson topics:
  1. Basic Calf Care
  2. Castration
  3. Feeding
- Teaching hours: 3-5
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

### Calf Simulator Replacement Ears (10 Pack)

## Bovine Fetal Development Models

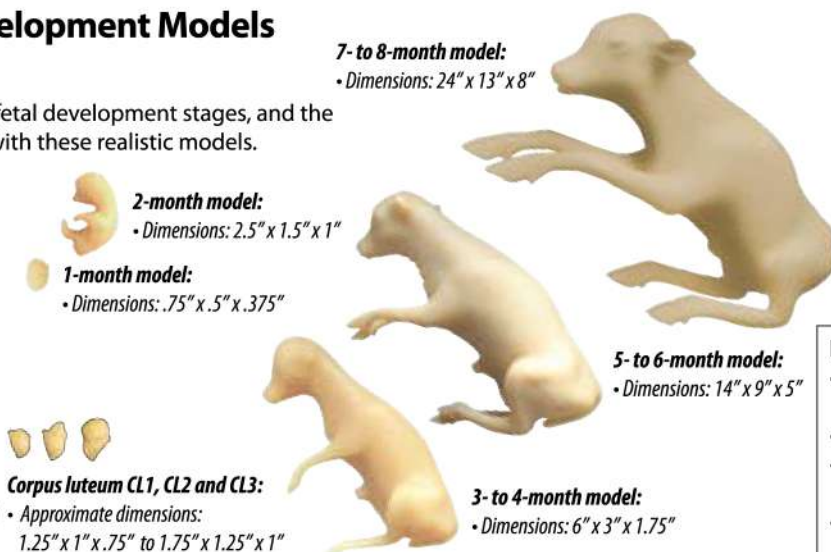
Help students understand fetal development stages, and the care those stages require, with these realistic models.

### Features:

- Life-size models
- Realistic features
- Flexible, rubberized feel

### Includes:

- 3 corpus luteum models
- 5 bovine fetal development models (1, 2, 3, 5, 7 months)
- Storage box
- Standards-based, downloadable curriculum
- 1-year limited warranty



### 7- to 8-month model:

- Dimensions: 24" x 13" x 8"

### 2-month model:

- Dimensions: 2.5" x 1.5" x 1"

### 1-month model:

- Dimensions: .75" x .5" x .375"

### Corpus luteum CL1, CL2 and CL3:

- Approximate dimensions: 1.25" x 1" x .75" to 1.75" x 1.25" x 1"

### 5- to 6-month model:

- Dimensions: 14" x 9" x 5"

### 3- to 4-month model:

- Dimensions: 6" x 3" x 1.75"

### Introduction to Bovine Fetal Development

- Curriculum lesson topics:
  1. Growth Stages of a Fetal Calf
- Teaching hours: 1-2
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Bovine Birthing and Ultrasound Simulator

Practice conducting bovine ultrasounds and birthing calves safely and consistently with this tabletop-sized simulator, which includes a realistic Birthing Calf Model and an Ultrasound Simulator that simulates 14 ultrasound situations.

### Use this simulator to:

- Simulate bovine ultrasounds
- Practice birthing calves
- Learn how to diagnose bovine pregnancy
- Understand bovine pregnancy stages
- Learn how to diagnose abrasions, cystic problems and infections

### Simulator features:

- Lifelike rear end of a pregnant cow
- Collapsible tabletop model
- Removable cover
- Flexible, replaceable vagina
- Flexible, 25" cow tail
- Realistic pelvic bone
- Lifelike calf model made of durable neoprene
- Calf model legs and hooves feature accurate proportions and mobility
- Replacement parts available

### Ultrasound Simulator features:

- Provides visual of corpus luteum and follicular cysts
- Includes 14 simulated situations
- Offers practice mode, test mode and simulation mode

### Includes:

- Birthing Simulator
- Birthing Calf Model
- Ultrasound Simulator: Probe and smart device
- Interchangeable ultrasound and birthing reproductive tracts
- Birthing tools: Straps and handles
- Storage bag
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Introduction to Bovine Birthing and Ultrasound Techniques

- Curriculum lesson topics:
  1. Cow Anatomy
  2. Cow Breeding
  3. Proper Ultrasound Technique
  4. Proper Birthing Technique
  5. Birthing Abnormalities
- Teaching hours: 3-5
- Includes: Presentation slides, student activities, and assessment tools
- Aligns to: Common Career Technical Core Standards



### Specifications birthing simulator:

- Dimensions: 30" x 30" x 25"
- Weight: 50 lbs.

### Specifications calf model:

- Dimensions: 36" x 12" x 16"
- Weight: 25 lbs.



*Shown: Ultrasound screen sample on included smart device screen*



## Bovine Breeder™ artificial insemination simulator \* Used at Malaysian Veterinary Institute.

**Brown**  
**Black and White**

Use this unique simulator to teach students correct cervix manipulation, AI gun positioning, and pregnancy palpation.

### Use this simulator to practice:

- Cervix manipulation
- AI gun positioning
- Pregnancy palpation
- Inserting and delivering semen
- Palpating the uterus to identify stages of corpus luteum

### Features:

- Realistic cow hindquarters and reproductive system
- Removable cow hide cover available in brown or black and white options
- Tabletop-size
- Collapses for easy storage

### Includes:

- Simulator with removable cervix, reproductive tract, and cow hide cover
- 100 latex-free, shoulder-length gloves
- AI barb-style gun with sheaths
- 3 stages of corpus luteum development models
- 2 stages of fetal development models
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 32" x 18" x 28"
- Weight: 25 lbs.



*Folds down for easy storage*

**INCLUDES PREGNANCY PALPATION!**



### Cow Reproductive Systems

- Curriculum lesson topics:
  1. Cow and Bull Reproductive Systems
  2. Basics of Artificial Insemination
  3. Proper Insemination Techniques
- Teaching hours: 3-5
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Bovine AI Cervix Training Kit

Use the nine cervix models in this portable kit to give students hands-on experience artificially inseminating different bovine cervixes, from young to older bovine reproductive tracts.

### Includes:

- 9 rubber cervix models (3 small and 6 large) in a case
- Standards-based, downloadable curriculum
- Quick start guide
- 1-year limited warranty

### Specifications:

- Dimensions: 17" x 12.5" x 3.7"
- Weight: 2.8 lbs.



### Bovine AI Cervix

- Curriculum lesson topics:
  1. Cow and Bull Reproductive Systems
  2. Basic Principles of Artificial Insemination
  3. Artificial Insemination Technique
- Teaching hours: 3-5
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Bovine Milking Udder Simulator

Create realistic practice scenarios with this working cow udder model, which includes four separate chambers that can be filled with fluid.

### Includes:

- Collapsible hindquarter with stand for easy assembly
- 4 milking udder bottles and chambered udder bag to hold the udder bottles
- Drip tray
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Specifications:

- Dimensions: 37" x 29" x 30"
- Weight: 42 lbs.

### Bovine Milking Udder

- Curriculum lesson topics:
  1. Development of the Bovine Udder
  2. Structure of the Bovine Udder
  3. Milking Procedure
  4. Managing Somatic Cell Counts
- Teaching hours: 4-5
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Cow and Pig Ear Simulation

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

### Features:

- Create safe, consistent practice sessions
- Tag each cow ear up to 6 times
- Notch each pig ear for proper identification
- Use your preferred style of ear tagging and ear notching tools and ear tag

### Includes:

- Cow head model
- Pig head model
- 50 pairs of cow ears
- 100 pairs of pig ears
- Storage box
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Cow and Pig Ear Replacement Pack (50 pairs of cow ears, 100 pairs of pig ears)



**NOTICE:** Does NOT include ear tagging or notching tools or ear tags.



### Cow and Pig Ear Simulation

- Curriculum lesson topics:
  1. Cow Ear Tagging
  2. Pig Ear Notching
- Teaching hours: 2
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Agriculture, Food, and Natural Resources Content Standards

## Swine Breeder™ artificial insemination simulator

Use this life-size female swine simulator to teach proper swine artificial insemination and birthing techniques.

### Use this simulator to practice:

- Checking for standing heat
- Replicating artificial insemination techniques
- Simulating farrowing piglets
- Training normal and abnormal delivery positions

### Features:

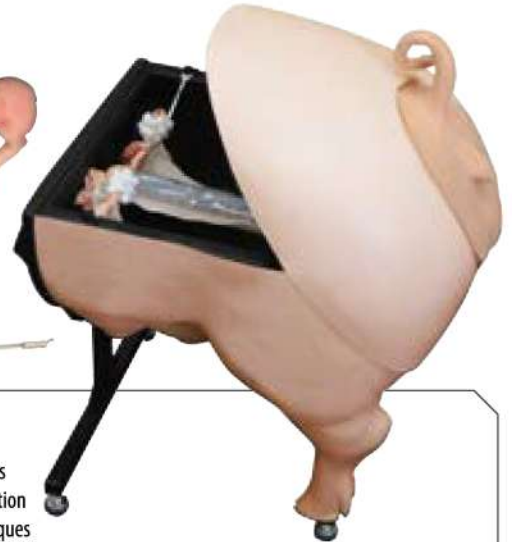
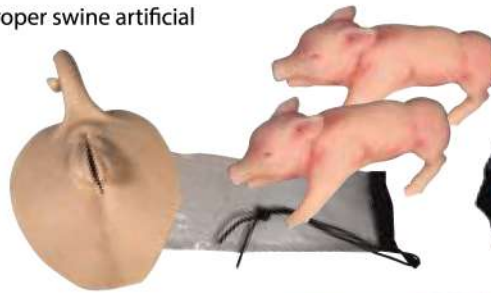
- Realistic swine hindquarters
- Sturdy enough to sit on

### Includes:

- Swine simulator
- Spiral tip AI catheter
- Transparent corkscrew-shaped reproductive tract (removable)
- Transparent farrowing reproductive track (removable)
- 2 piglets
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 22.4" x 16.5" x 28"
- Weight: 25 lbs.



### Swine Reproductive Systems

- Curriculum lesson topics:
  1. Swine Reproductive Systems
  2. Basics of Artificial Insemination
  3. Proper Insemination Techniques
- Teaching hours: 3-5
- Includes: Presentation slides, student activities, and pre- and post-assessments

## Swine Litter Processing Simulators

Give students hands-on practice processing piglets using four techniques.

### Features:

- Lifelike piglet simulators
- Hands-on practice clipping teeth, castrating, tail docking, and ear notching
- Replaceable parts for repeated practice
- Additional replacement parts available

### Includes:

- 4 piglet simulators
- 4 teeth and tail snippers
- 4 ear notching tools
- 4 plastic scalpels
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Piglet specifications:

- Dimensions: 14" x 8" x 5"
- Weight: 6 lbs.

### Introduction to Swine Litter Processing

- Curriculum lesson topics:
  1. Proper Processing Techniques
  2. Proper Health of the Swine
- Teaching hours: 1-2
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

### Swine Litter Supply Pack

## Cow Anatomy 3D Flip Chart

Illustrate bovine anatomy and other cow systems with this portable relief chart, which splits down the middle to reveal three separate cow anatomical illustrations.

### Features:

- Depicts the outer view of the cow, skeleton, and internal organs and reproductive tract
- Whiteboard material
- Includes hindquarter, hoof, and reproductive tract callout diagrams

### Includes:

- 3 contoured flip charts
- Tabletop stand
- Floor stand on wheels
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



*Made of whiteboard material for use with most dry erase markers*



**Flip chart specifications:**  
 • Dimensions: 18" x 40" x 32"  
 • Weight: 35 lbs.

### Cow Anatomy 3D Flip Chart

- Curriculum lesson topics:
  1. Bovine Anatomy
- Teaching hours: 1-2
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

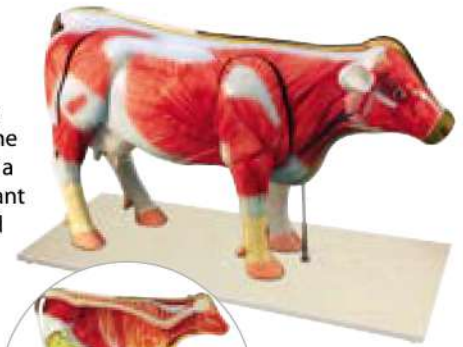


## Cow Model

Approximately one-sixth the size of a real cow, this model shows the internal and external anatomy of a female cow, including the ruminant system, reproductive system, and digestive system.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 13 removable parts
- 2 posters (Beef Cuts and Cow Digestion)
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

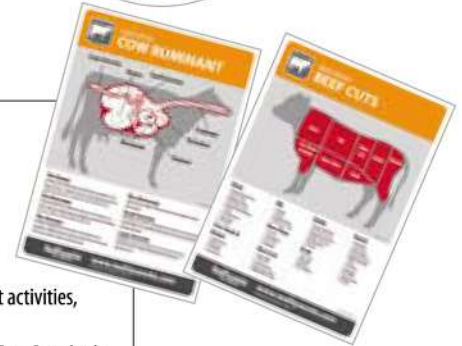


### Specifications:

- Dimensions: 10" x 21" x 33.5"
- Weight: 45 lbs.

### Cow

- Curriculum lesson topics:
  1. Cow Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards



## Small Cow Model Set (5-pack)

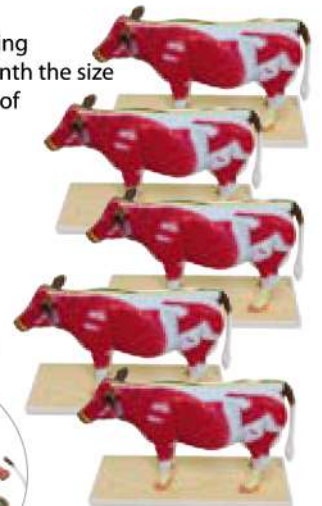
Use this set of five detailed models to create interactive group activities focused on exploring cow anatomy. Each model in this set is one-tenth the size of an actual cow, and features realistic details of internal and external cow anatomy. Models separate at the midline to reveal detailed, removable parts.

### Includes:

- 5 identical cow models on stands
- Quick start guide
- 13 removable parts
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Cow

- Curriculum lesson topics:
  1. Cow Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 3
- Includes: Presentation slides, student activities and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards



### Specifications (each model):

- Dimensions: 16.14" x 5.9" x 10.24"
- Weight: 6.25 lbs.

## Horse Model

This model will help students understand the internal and external anatomy of a female horse, including the muscular, reproductive, and digestive systems. It is one-sixth the size of a real horse and separates at the midline to reveal detailed, removable parts.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 11 removable parts
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 8" x 24" x 27"
- Weight: 36 lbs.



### Horse

- Curriculum lesson topics:
  1. Horse Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Pig Model

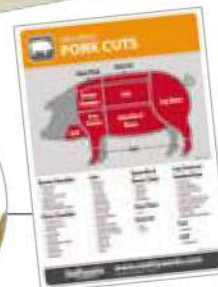
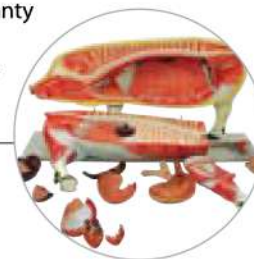
Approximately one-third the size of a sow, this model will help students understand the internal and external anatomy of a female pig, including the digestive and reproductive systems. It separates at the midline to reveal detailed, removable parts.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 17 removable parts
- 1 poster (Pork Cuts)
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 10" x 19" x 40"
- Weight: 52 lbs.



### Pig

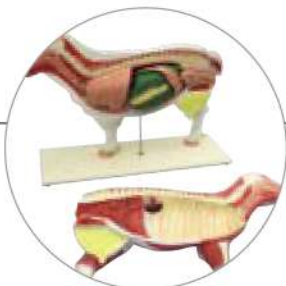
- Curriculum lesson topics:
  1. Pig Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Sheep Model

This detailed model is about half the size of a female sheep and features detailed internal and external anatomy plus realistic, removable parts.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 11 removable parts
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Specifications:

- Dimensions: 15" x 27" x 30"
- Weight: 47 lbs.

### Sheep

- Curriculum lesson topics:
  1. Sheep Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 1-2
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Goat Model

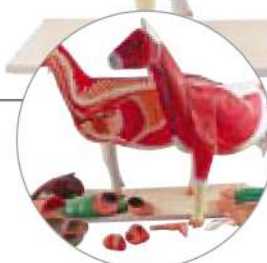
Half the size of an actual goat, this model features the internal and external anatomy of a female goat, and includes detailed, removable parts.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 11 removable parts
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 32" x 10" x 27"
- Weight: 36.1 lbs.



### Goat

- Curriculum lesson topics:
  1. Goat Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 3-4
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Chicken Model

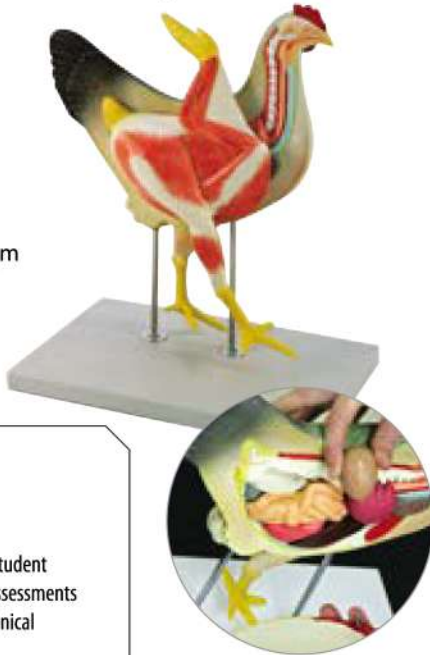
Help students understand the internal and external anatomy of a hen, including the reproductive system and digestive system, with this life-size replica. It separates at the midline to reveal detailed, removable parts.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 7 removable parts
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 15" x 5" x 17.5"
- Weight: 6 lbs.



### Chicken

- Curriculum lesson topics:
  1. Poultry Anatomy
- Teaching hours: 1
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Rabbit Model

This life-size replica of a female rabbit features detailed internal and external anatomy.

### Includes:

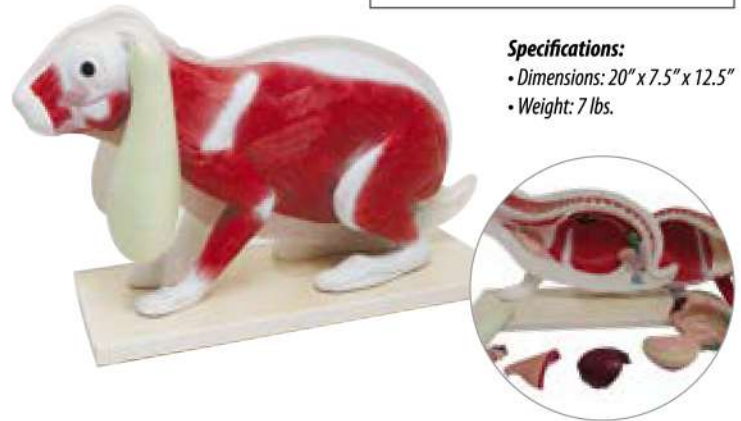
- Model on display stand
- Cross-sectional view of internal and external anatomy
- 7 removable parts
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Rabbit

- Curriculum lesson topics:
  1. Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 1
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

### Specifications:

- Dimensions: 20" x 7.5" x 12.5"
- Weight: 7 lbs.

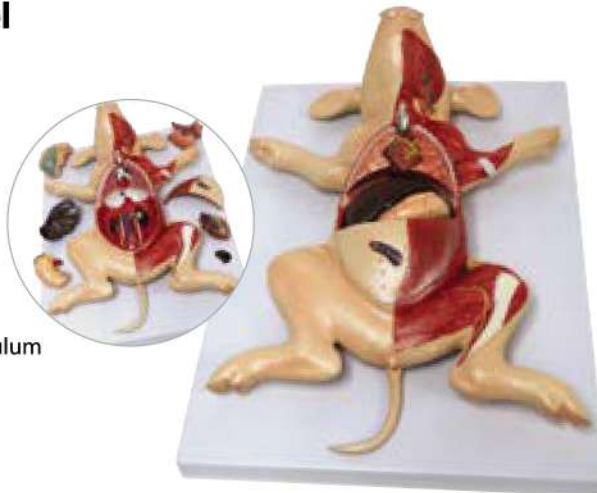


## Dissected Fetal Pig Model

This detailed model brings dissection experience to the classroom. It features removable organs and curriculum that discusses fetal pig anatomy and dissection techniques.

### Includes:

- Dissected Fetal Pig Model on base
- 9 removable parts
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Dissected Fetal Pig

- Curriculum lesson topics:
  1. Pig Anatomy
  2. Major Cutting Patterns for Dissection
  3. Parts and Organs of a Fetal Pig
- Teaching hours: 1
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

### Specifications:

- Dimensions: 19" x 13.5" x 5.7"
- Weight: 7.7 lbs.

*"This was the perfect solution to enhancing student interest in animal anatomy. Every student is immediately drawn to and curious about the models when they enter my classroom. The hands-on approach to discussions and review of organ systems and major parts that the models allow for has been really beneficial for my students!"*

- Margaret Shelton Smith, Agriculture Teacher

## Large Dog Model

Use this large-breed female dog model to help students understand the internal and external anatomy of a dog, including the reproductive and digestive systems. It separates at the midline to reveal detailed, removable parts.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 10 removable parts
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Large Dog

- Curriculum lesson topics:
  1. Canine Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

### Specifications:

- Dimensions: 15" x 27" x 30"
- Weight: 47 lbs.

## Small Dog Model

Use this miniature model of a large-breed female dog to help students understand the internal and external anatomy of a dog, including the reproductive and digestive systems. It separates at the midline to reveal detailed, removable parts.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 8 removable parts
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Small Dog

- Curriculum lesson topics:
  1. Canine Anatomy
  2. Digestive Tract
  3. Reproductive Systems
- Teaching hours: 3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

### Specifications:

- Dimensions: 17" x 8" x 11.5"
- Weight: 7 lbs.

## Cat Model

This lifelike model dissects at the midline to help students understand the internal and external anatomy of a female cat.

### Includes:

- Model on display stand
- Cross-sectional view of internal and external anatomy
- 11 removable parts
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Cat

- Curriculum lesson topics:
  1. Feline Anatomy
  2. Digestive Tract
  3. Reproductive Systems
  4. Cat Respiratory and Circulatory Systems
- Teaching hours: 4
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

### Specifications:

- Dimensions: 24" x 7.25" x 12"
- Weight: 7 lbs.



## Large Dog Skeleton Model

Help students understand the skeletal structure and location of dog bones with this flexible model.

**Includes:**

- Model on display stand
- Quick start guide
- Downloadable student activity with teacher guide
- 1-year limited warranty

**Specifications:**

- Dimensions: 32" x 9.5" x 26"
- Weight: 16 lbs.



## Small Dog Skeleton Model

Detailed model of a small dog's skeletal system to help students understand dog bone structure.

**Includes:**

- Model on display stand
- Quick start guide
- Downloadable student activity with teacher guide
- 1-year limited warranty

**Specifications:**

- Dimensions: 17" x 8" x 11.5"
- Weight: 5 lbs.



## Cat Skeleton Model

Use this flexible replica of the cat skeletal system to teach students about cat bone structure.

**Includes:**

- Model on display stand
- Quick start guide
- Downloadable student activity with teacher guide
- 1-year limited warranty

**Specifications:**

- Dimensions: 17" x 8" x 11.5"
- Weight: 5 lbs.



## Horse Hoof Model

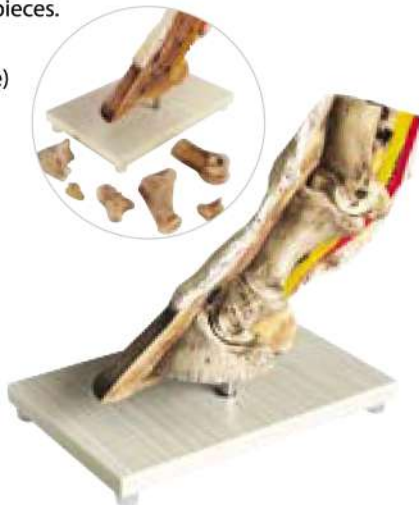
Use this realistic model to help students understand the internal and external anatomy of a horse hoof. It features a cross-section of the hoof with removable bone pieces.

**Includes:**

- Model on base (removable)
- 6 detachable parts
- Quick start guide
- Downloadable student activity with teacher guide
- 1-year limited warranty

**Specifications:**

- Dimensions: 12" x 8" x 7"
- Weight: 4 lbs.



## Cow Hoof Model

This two-piece model helps students understand the internal and external anatomy of a cow hoof.

**Includes:**

- Model on base (removable)
- 1 removable part
- Quick start guide
- Downloadable student activity with teacher guide
- 1-year limited warranty

**Specifications:**

- Dimensions: 12" x 8" x 7"
- Weight: 5 lbs.



While supplies last!

**Cow, Horse, and Pig Reproductive Systems\***

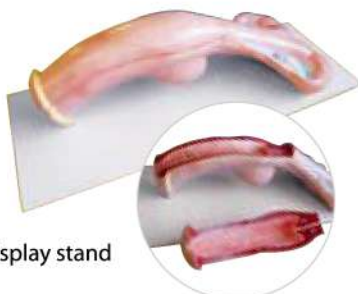
- Curriculum lesson topic:
  1. Reproductive systems
- Teaching hours: 1 (each)
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

**Cow Uterus Model**

Use this true-to-size model to help students understand the anatomy of a cow's reproductive system.

**Includes:**

- Life-size anatomical model on display stand
- 1 removable part
- Standards-based, downloadable curriculum\*
- 1-year limited warranty



**Specifications:**

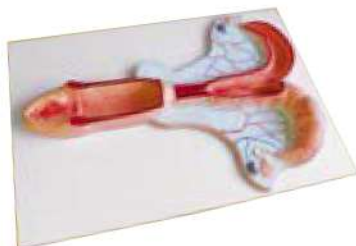
- Dimensions: 31.5" x 12" x 9"
- Weight: 10 lbs.

**Horse Uterus Model**

Help students understand the horse reproductive system with this detailed uterus model.

**Includes:**

- Life-size anatomical model
- Standards-based, downloadable curriculum\*
- 1-year limited warranty



**Specifications:**

- Dimensions: 30.75" x 21.75" x 3"
- Weight: 15 lbs.

**Pig Uterus Model**

Educate students on the pig reproductive system with this detailed anatomical model of a pig uterus.

**Includes:**

- Life-size anatomical model
- Standards-based, downloadable curriculum\*
- 1-year limited warranty



**Specifications:**

- Dimensions: 13.75" x 21.25" x 3"
- Weight: 9 lbs.

**Cow Udder Model**

This full-color, detailed model shows the internal and external anatomy of a cow udder.

**Includes:**

- Model on base (removable)
- Quick start guide
- Downloadable student activity with teacher guide
- 1-year limited warranty



**Specifications:**

- Dimensions: 20" x 17" x 10"
- Weight: 15 lbs.

**Cow, Horse, and Pig Digestive Systems\*\***

- Curriculum lesson topic:
  1. Digestive systems
- Teaching hours: 1 (each)
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

**Ruminant Model**

Help students understand the ruminant digestive system with this detailed model, which depicts internal and external ruminant system, including four ruminant compartments in full-color, textured detail.

**Includes:**

- 2 detachable parts
- Standards-based, downloadable curriculum\*\*
- 1-year limited warranty



**Specifications:**

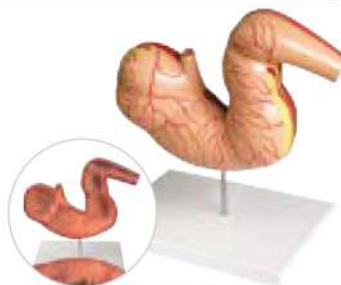
- Dimensions: 11" x 7" x 14"
- Weight: 2.5 lbs.

**Horse Stomach Model**

Help students understand the horse digestive system with this detailed model, which depicts internal and external anatomy of the stomach in full-color detail.

**Includes:**

- 1 detachable part
- Standards-based, downloadable curriculum\*\*
- 1-year limited warranty



**Specifications:**

- Dimensions: 19" x 9" x 14"
- Weight: 3.5 lbs.

**Pig Stomach Model**

Help students understand the digestive system with this detailed pig stomach model, which depicts internal and external anatomy of the stomach in full-color detail.

**Includes:**

- 1 fully detachable part
- Standards-based, downloadable curriculum\*\*
- 1-year limited warranty

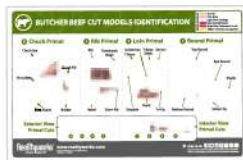


**Specifications:**

- Dimensions: 11" x 7" x 15"
- Weight: 2.5 lbs.

## Butcher Beef Cut Models

This realistic set of 21 magnetic models is half the size of a real steer.



Downloadable poster

### Includes:

- 21 individual beef cuts
- Downloadable poster
- Quick start guide
- Standards-based, downloadable curriculum\*
- 1-year limited warranty

### Features:

- Realistic bone, muscle, and tendon definition
- Easy-to-separate magnetized pieces

<b>Butcher Beef Cuts Included:</b>
<b>Chuck:</b> Brisket, Chuck Eye, Chuck Rib, Foreshank, Shoulder
<b>Rib:</b> Navel, Short Ribs, Tomahawk Steak, Rib Primal
<b>Loin:</b> Bone, Flank, Sirloin, Strip Loin, T-Bone, Tenderloin, Tri-Tip
<b>Round:</b> Bottom Round, Eye Round, Shank, Sirloin Tip, Top Round

### Specifications:

- Model size: 60" x 20" x 6.5" • Weight: 35 lbs.

## Butcher Pork Cut Models

This realistic set of 13 magnetic models is half the size of a real pig.



Downloadable poster

### Includes:

- 13 individual pork cuts
- Downloadable poster
- Quick start guide
- Standards-based, downloadable curriculum\*
- 1-year limited warranty

### Features:

- Realistic bone, muscle, and tendon definition
- Easy-to-separate magnetized pieces

<b>Butcher Pork Cuts Included:</b>
<b>Round:</b> Boston Butt, Shoulder "Picnic"
<b>Loin:</b> Blade Chop, Blade Loin Roast, Center-Cut Loin Chop, Center Loin Roast, Sirloin Chop, Sirloin Roast
<b>Belly/Side:</b> Spareribs, Pork Belly, Tenderloin
<b>Leg:</b> Ham, Ham Hock

### Specifications:

- Model size: 47" x 18" x 7.5" • Weight: 40 lbs.

## Butcher Lamb Cut Models

This set of 12 magnetic models is slightly smaller than a real lamb.

### Includes:

- 12 individual lamb cuts
- Downloadable poster
- Quick start guide
- Standards-based, downloadable curriculum\*
- 1-year limited warranty

### Features:

- Realistic bone, muscle, and tendon definition
- Easy-to-separate magnetized pieces

### Specifications:

- Model size: 40" x 14" x 6.5" • Weight: 15 lbs.



Downloadable poster

<b>Butcher Lamb Cuts Included:</b>	<b>Rack:</b> Rack, Lollipop
<b>Shoulder:</b> Neck, Shoulder	<b>Loin:</b> Loin, Loin Chop
<b>Breast:</b> Shank, Breast, Trotter (spool joint), Trotter (break joint)	<b>Leg:</b> Sirloin, Leg

## NEW - Butcher Chicken Cut Models

This lifelike set of nine magnetic models are about the size of a whole chicken.

### Specifications:

- Model size: 12.25" x 10.25" x 6.25"
- Weight: 5 lbs.

### Includes:

- 9 individual chicken cuts
- Downloadable poster
- Quick start guide
- Standards-based, downloadable curriculum\*
- 1-year limited warranty

### Features:

- Realistic bone, muscle, and tendon definition
- Easy-to-separate magnetized pieces



Downloadable poster

### Butcher Chicken Cuts Included:

Breast, Drumette, Drumstick, Tenderloin, Thigh, Wingette, Stock, Wing tip, Half of the chicken with skin

### \* Butcher Cut Models Curriculum

- Curriculum lesson topics:
  1. Anatomy
  2. Harvesting
  3. How to Prepare and Cook Cuts
- Teaching hours: 3-5
- Includes: Presentation slides, student activities, poster and pre- and post-assessment
- Aligns to: AFNR Career Cluster Content Standards

**Curriculum included with all meat cut models**

## Beef and Pork 3D Meat Cuts Poster

This contoured plastic poster features primal cuts and the most common meat cuts of beef and pork.

### Includes:

- Contoured poster
- 1-year limited warranty

### Specifications:

- Poster size: 29" x 39" x 1.75"



## Knife Skills Kit

Create interactive, hands-on activities focused on proper cutting procedures and safety with this ready-to-use kit.

### Includes:

- 6 cutting boards featuring inch measurements and scale lines
- 6 finger guards
- 6 rulers featuring Mercer Rules™
- 6 sets of 3D knife cut models
- 6 sets of 2 posters (Measurements and Conversions and Common Knife Cuts)
- 6 sets of modeling clay
- Storage box
- Standards-based, downloadable curriculum
- Quick start guide
- 1-year limited warranty



### Understanding Basic Knife Skills

- Curriculum lesson topics:
  1. Safe Handling and Storage of Knives
  2. The Anatomy of Knives
  3. Knife Cuts
- Teaching hours: 2-3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: National Standards for Family and Consumer Sciences Education

### Food Science and Nutrition Lab Kit

Create meaningful lab activities focused on food science and nutrition concepts, like nutrition, food technology, dietetics and more.

**Includes:**

- 20 student workbooks
- 12 posters (6 sets of Food Label, 6 sets of Essential Nutrients)
- 1 set of Food Processing, Production, and Safety Career Scenario Cards
- Glo Germ™ Powder with brush
- 6 UV lights with batteries
- 1 package of cheesecloth, (12) 50-mL beakers, 12 small funnels, 12 pipettes, 12 wooden sticks
- Storage box
- Standards-based, downloadable curriculum
- 1-year warranty



**Food Science and Nutrition**

- Curriculum lesson topics:
  1. Career Planning
  2. Food Safety
  3. Introduction to Nutrition
  4. Nutrition Therapy
  5. Food Technology
  6. Food Science, Dietetics, and Nutrition Management
  7. Food Biology and Chemistry
- Teaching hours: 17-22
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

**Food Science and Nutrition Student Workbook (Set of 20)**

### Kitchen Safety Kit

Introduce basic kitchen safety concepts and techniques through hands-on learning experiences.

**Includes:**

- Trivia card game
- Glo Germ oil and powder
- Powder brush
- 6 UV lights with batteries
- 6 finger guards
- 12 Kitchen safety posters (6 sets of Sanitation, 6 sets of Essential Safety)
- Hazardous kitchen walkthrough items: faux spill model, chipped dish, overloaded outlet model, burning pot with flame model, plastic rodent, simulated mouse droppings
- Storage box
- Standards-based, downloadable curriculum
- 1-year limited warranty



**Basic Kitchen Safety**

- Curriculum lesson topics:
  1. Intro to Kitchen Safety
  2. Sanitation
  3. Knife Safety
  4. Prevention of Burns, Falls, and Electrical and Chemical Hazards
  5. Kitchen Safety, Hazardous Kitchen Assessment
- Teaching hours: 5
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: National Standards for Family and Consumer Sciences Education

### Culinary Math Training Kit

Address remedial math concepts and introduce students to basic culinary math with this supplemental program. In addition to basic math operations, students will learn about kitchen measuring tools, converting standardized recipes, and calculating food costs. Built-in assessments include lesson quizzes plus summative quizzes for both foundational and culinary math review.

**Includes:**

- 20 student workbooks
- Storage box
- Downloadable slide presentations
- Online lessons
- Standards-based, spiral-bound curriculum
- 1-year limited warranty



**Culinary Math Training Kit**

- Curriculum lesson topics:
  1. Fractions, Decimals, Ratios, and Percentages
  2. Measurement Systems
  3. Conversions
  4. Calculating Food Costs
  5. Kitchen Measuring Tools
  6. Converting Standardized Recipes
- Teaching hours: 7-8
- Includes: Presentation slides, student workbooks, online student lessons, and pre- and post-assessments
- Aligns to: National Standards for FCS Education and Common Career Technical Core Standards

**Culinary Math Student Workbook (Set of 20)**

### RealCareer™ Food Safety Kit

Address safe food handling and preparation techniques.

**Includes:**

- Presentation slides
- 12 food safety posters (6 sets of Proper Hand Washing Techniques, 6 sets of Food Temperature Safety Zones)
- 6 bottles of Glo Germ Gel
- 6 UV lights with batteries
- "Just the Facts: Food Safety" DVD
- Food Safety Trivia Cards with die
- Storage box
- Standards-based, downloadable curriculum
- 1-year limited warranty



**Understanding Basic Food Safety**

- Curriculum lesson topics:
  1. Introduction to Basic Food Safety
  2. Foodborne Illnesses
  3. Preventing Foodborne Illness Outbreaks
  4. Temperature Danger Zone
  5. Preventing Cross-Contamination
  6. Exploring Culinary and Food Service Careers
- Teaching hours: 8-10
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: National Standards for Family and Consumer Sciences Education

**Food Safety Student Workbook (Set of 20)**



NOTICE: Fish not included.

**Fits through standard doorways!**

## NEW - Educational Aquaponics System

Bring aquaponics to your classroom with this easy-to-use system, which holds up to 10 fish and 14 plants. This self-contained system allows students to view the fish, filtration, and fertilization process as well as plants growing through the biofilter process.

### Includes:

- Educational Aquaponics System
- Caster wheels
- Biofiltering system
- Transparent containers
- Fish tank
- Plant sites: 14
- LED grow lights
- Fans
- Storage shelf
- Seeds
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Features:

- Easy to set up
- Removable parts are easy to clean
- Caster wheels allow for easy movement
- Transparent containers allow users to easily see the biofiltering system at work
- Low time and space commitment compared to large systems

### Specifications:

- Dimensions: 38.5" x 22.25" x 76"
- Shelf spacing (grow height): 13.25"
- Weight: 130 lbs.
- Water capacity: 33 gallons
- 2 fans
- Voltage: 120v, 60Hz



### Introduction to Aquaponics

- Curriculum lesson topics:
  1. Introduction to Aquaponics
  2. Components of an Aquaponics System
  3. Fish Care
  4. Plant Care
- Teaching hours: 6-7
- Includes: Presentation slides, student activities, and pre- and post-assessments

**This classroom-friendly aquaponics system is ideal for supporting farm-to-school programs; exploring plant science, STEM, and sustainability concepts; and fostering soft skills like teamwork and collaboration.**

## NEW - Farm to Fork Lab Kit

Introduce students to farm-to-table concepts and challenge their problem-solving skills through hands-on learning activities, scenarios, and models.

### Includes:

- 5 whiteboards
- 5 markers
- 5 microfiber cloths
- Field Insects Kit
- 30 Petri dishes
- Agar powder
- Cotton swabs
- 1 set of scenario cards
- Storage box
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Farm-to-Fork

- Curriculum lesson topics:
  1. Production of Goods
  2. Processing Agricultural Products
  3. Transporting Food to a Regional Distribution Center
  4. Shipping Produce to Local Retail Stores
  5. Food Ending Up on Your Plate
- Teaching hours: 7
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Alignments: National Standards for Family and Consumer Sciences Education and Curriculum for Agricultural Science Education



**Petri Dish Supply Pack (100) and Agar Powder**

## Plant Producer Educational Hydroponics System

With three vertical shelves connected to a single water source, this system enables equal nutrient allotment and concentrated growth on each level so you can grow production-level quantities of greens.

### Includes:

- System control panel with sensor monitoring
- 42 plant sites
- LED grow lights
- Fans
- Water pump
- 7-gallon water tank
- Grow medium sponges
- Reusable grow cups
- Germination tray, seeds, and rockwool
- User guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 74" x 31" x 15"
- Shelf spacing (grow height): 20" bottom, 12" middle, 12" top
- Weight: 100 lbs.
- Water capacity: one 7-gallon tank
- Fans: two fans per shelf unit
- Voltage: 120v, 60Hz



System control panel with sensor monitoring

**Curriculum included with all educational hydroponics systems**

### Introduction to Hydroponics (included with all educational hydroponics systems options)

- Curriculum lesson topics:
  1. What is Hydroponics
  2. Plant Life
- Teaching hours: 2
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Plant Lab Educational Hydroponics System

With three vertical shelves connected to individual water sources, this classroom-friendly system lets students experiment with different plants, water levels, and nutrients on each level.

### Includes:

- 33 plant sites
- LED grow lights
- Fans
- Water pump
- 2-gallon water tank/shelf
- Grow medium sponges
- Reusable grow cups
- Germination tray, seeds, and rockwool
- User guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Specifications:

- Dimensions: 56" x 28" x 15"
- Shelf Spacing (grow height): 10"
- Weight: 75 lbs.
- Water Capacity: (3) 2-gallon tanks, 1 per shelf
- Fans: 1 fan per shelf unit
- Voltage: 120 v, 60 Hz



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

Use this package of five desktop-size systems to create individual or small-group opportunities for students to experiment with different hydroponics growing methods.

### Includes:

- 5 Plant Mini Educational Hydroponics Systems, which each include:
  - Water tank
  - LED grow lights
  - Fan
  - Reusable grow cups
  - Mini germination domes
  - Grow cup cover
  - Rockwool
  - Grow mat
  - Seeds
  - Ebb and flow tray
  - Microgreen tray
- Standards-based, downloadable curriculum
- User guide
- 1-year limited warranty

### Specifications:

- Dimensions: 15.4" x 10.2" x 13.6"
- Shelf Spacing (grow height): Approx. 11"
- Weight: 6.4 lbs.
- Water Capacity: 4 L
- Fans: 1
- Voltage: 120 v, 60 Hz

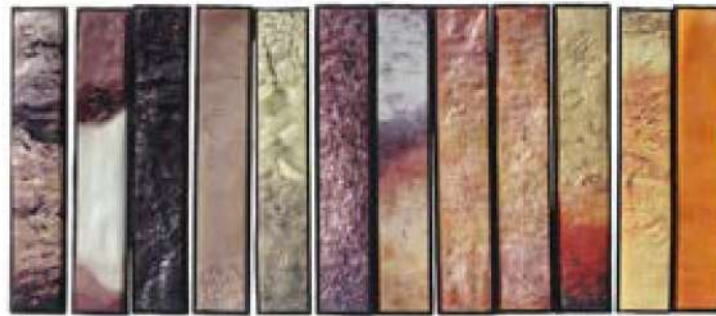


## Soil Monolith Kit

Help students visualize the differences in soil across the United States with this detailed set of 12 monolith models.

### Includes:

- 12 Soil Monoliths
- Downloadable Soil Orders Poster
- Quick start guide
- Standards-based, downloadable curriculum
- Storage box
- 1-year limited warranty



### Specifications (each):

- Dimensions: 38" x 8" x 2.25"
- Weight: Approximately 2 lbs.

### Soil Monoliths:

Gelisols	Aridisols	Andisols	Alfisols
Histosols	Ultisols	Oxisols	Inceptisols
Spodosols	Mollisols	Vertisols	Entisols

### Soil Monolith

- Curriculum lesson topics:
  1. Soil Horizons
  2. Soil Orders
- Teaching hours: 2-3
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Agriculture, Food, and Natural Resources Career Cluster Content Standards

## Greenhouse Insects Kit

With eight oversized models that represent adult greenhouse insects in realistic, full-color detail, this kit helps students identify larva and adult insects, understand the damage they can do to greenhouse plants, and learn how to protect plants from common problems.

### Includes:

- 8 detailed models: aphid, fungus gnat, mealybug, leafminer, whitefly, shore fly, spider mite, thrip
- 10 sets of flashcards
- Storage case
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Greenhouse Bugs

- Curriculum lesson topics:
  1. Insect Identification
  2. Common Damage and Damage Control for Greenhouse Insects
- Teaching hours: 3-5
- Includes: Presentation slides, student activities, and pre- and post-assessments

### Specifications (case):

- Dimensions: 21" x 7" x 16"
- Weight: 5 lbs.

## Plant Science Kit

Use this interactive, ready-to-use kit as a supplemental tool for teaching the structure of plants and flowers.

### Includes:

- Dicot Plant Leaf model and Plant Cell model
- 4 posters (Parts of a Flower, Plant Identification - Shape, Plant Identification - Margin and Venation and Parts of a Leaf, Root and Stem)
- Plant Science Trivia Cards
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Dicot Plant Leaf model specifications:

- Dimensions: 10.5" x 11" x 4"

### Plant Cell model specifications:

- Dimensions: 12" x 11" x 3"

### Plant Science Basics

- Curriculum lesson topics:
  1. Introduction to Plant Science
  2. Plant Cell Structure
  3. Leaves, Roots and Stems
  4. Flowering Plants
  5. Plant Identification Features
  6. Photosynthesis Respiration and Transpiration
  7. Exploring Botany and Plant Science Careers
- Teaching hours: 3-5
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Corn Stalk Model

Use the Corn Stalk Model, standing over six-feet tall, to teach about corn stalk growth as well as potential diseases.

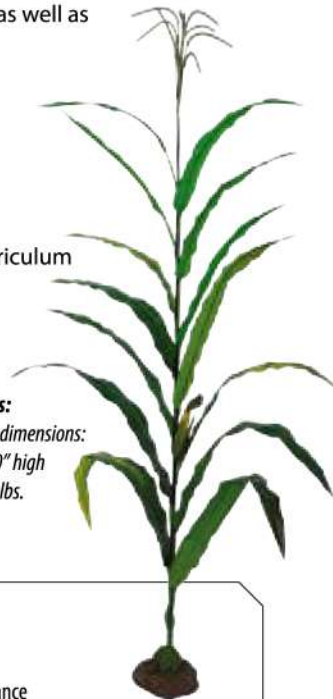
### Includes:

- Corn Stalk Model on base
- Removable corn cob
- 14 removable leaves with 8 different deficiencies
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty



### Specifications:

- Approximate dimensions: 40" wide x 90" high
- Weight: 11.5 lbs.



### Corn Stalk

- Curriculum lesson topics:
  1. Corn Plant Anatomy
  2. Plant Deficiencies & Proper Health Maintenance
- Teaching hours: 3-5
- Includes: Presentation slides, student activities and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards

## Soybean Plant Model

This life-size model teaches students about healthy and unhealthy soybean plant growth stages.

### Includes:

- Soybean Plant Model on base
- Full-color details of roots, nodes, buds, stalk, leaves and pods
- Quick start guide
- Standards-based, downloadable curriculum
- 1-year limited warranty

### Soybean Plant Model

- Curriculum lesson topics:
  1. Soybean Plant Anatomy
- Teaching hours: 2
- Includes: Presentation slides, student activities, and pre- and post-assessments
- Aligns to: Common Career Technical Core Standards



### Specifications:

- Approximate dimensions: 24" wide x 48" high
- Weight: 8 lbs.

## Corn Grain Model

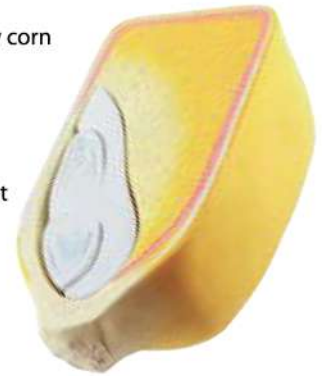
Use this enlarged relief model to show corn grain structure in full-color detail.

### Includes:

- Oversized model of a corn grain
- 1 removable part
- Teacher guide and student worksheet
- 1-year limited warranty

### Specifications:

- Dimensions: 13.5" x 7" x 6"

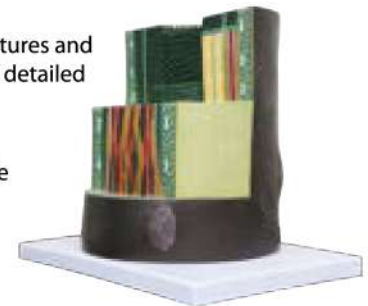


## Dicot Stem Model

Help students understand the features and anatomy of a plant stem with this detailed stem model.

### Includes:

- Cross-sectional view of the inside of a plant stem
- Enlarged view of structures, tissues and vascular bundles of a dicot stem
- Full-color details
- 1-year limited warranty



### Specifications:

- Dimensions: 13" x 14" x 17"

## Dicot Flower Model

Help students understand the features and anatomy of a flower with this detailed flower model.

### Includes:

- Oversized model of a dicot flower
- Enlarged view of the petal, stigma, style, stamen, filament, anther, receptacle, sepal, plus a cross-sectional cutaway view of the ovule
- Full-color details
- 9 fully detachable parts
- 1-year limited warranty



### Specifications:

- Dimensions: 7" x 7" x 19"