



4-H Trunks

Science & Technology Trunks

Astronomy Trunk

- One Celestron Telescope
- Star finders (very fragile - must be handled with care)
- Various books with activities

Star gaze with the astronomy trunk. Have a hands on experience identifying stars and constellations at night, and have fun with books and other resources and activities during the day. The sky is the limit! The trunk is very fragile and must be handled with care and responsibility.

Digital Camera Trunk #1

Learn the elements of good photography as well as how to use a digital camera. Youth will take, transfer and print their photos.

Items include:

- 10 Canon PowerShot A550 Digital Cameras
- HP 375 Photosmart Printer
- Software for editing photos on computer
- Photo Printer and software
- PowerPoint Presentation on "Mega Fun with Mega Pixels"
- Leader's resource binder

GPS - Garmin eTrex Legend

This trunk is designed to teach the basics of Geospatial Positioning. This trunk may also be used by counties that wish to participate in the Youth Favorite Places project.

- Ten hand-held Garmin eTrex Legend GPS Units
 - Leaders Resource Binder
 - GPS Basics Power Point
 - Instruction Books
 - PC Interface Cables to connect GPS unit to computer
- Ten laminated instruction sheets included on how to facilitate an elementary "Scavenger Hunt"

GPS - Garmin III

This trunk is designed to teach the rudiments of Geospatial Positioning. This trunk may also be used by counties that wish to participate in the Youth Favorite Places project.

Ten hand-held GPS units

Ten laminated instruction sheets included on how to facilitate an elementary "Scavenger Hunt"

Gateway Computer Bank

The computer bank may be used stand alone, or in conjunction with the GPS units (ArcView software is installed). May also be used with digital cameras and Professor Franklin T-shirt program.

Six laptop computers (wireless internet connection capable)

Computers come with the Windows XP Edition, including Word, Excel, web design software FrontPage, ArcView 3.2, etc.

Minnesota ArcView GIS Lesson curriculum to use in conjunction with ArcView 3.2; a very basic easy to understand lesson in GIS for beginners. You will need the computer bank and the lesson plan for this activities.

Geocaching Trunk

Youth/clubs who wish to use this trunk will need to supply their own prizes and protective plastic or metal box for the cache. An example of a cache is provided in the trunk.

Go to www.geocaching.com for more information.

Trunk includes:

- Six Garmin eTrex GPS units
- Geocaching instructions
- Books on Geocaching

Geocaching is a fun international sport which spans across continents throughout the entire world.

Orienteering Trunk

This trunk is a fun way for youth to learn how to read a map as well as basic orienteering lessons.

Trunk includes:

- Five compasses
- One package dry erase markers
- Three laminated USGS topographic maps
- Teaching with topographic maps guide

Pop Bottle Rocket Trunk

This trunk provides an exciting introduction to model building and model rocketry. No fuel is used, so it's fun for all ages. Adult supervision is required..

1. Pop bottle rocket launcher and accessories
2. Tire pump
3. Set of "Rockets Away" curriculum
4. Miscellaneous supplies
5. You will need to supply 20 ounce plastic pop bottles

Lego Trunk

Build exciting Lego robotics with this trunk. A great trunk for learning some of the basic skills of electronics and robotics.

Lego Kits including: *StarWars*, *Amusement Park*, *ROBOLAB* software.

Lego® Crazy Action Contraption

This trunk is for youth ages 7 and up who love to build and invent. Comes with step by step instructions and supplies to build ten contraptions including a rubber band racer, spinning tops, a balloon-powered rocket car, an automatic field goal kicker, a ping pong popper, a candy machine and more!!

Professor Franklin's Photo T-Shirt Program

—Order transfer paper on line from "Streetwise software" as generic transfer paper does not work. You'll need the computer bank as well as the color printer (unless you have access to a computer lab and a color printer at the site).

Weather Trunk

Youth will learn about weather patterns, types of weather and weather forecasting.

1. Twelve laminated examples of weather (such as the sun, wind, clouds, thunderclouds, snow, etc.) on dowels used to illustrate what each example means; labeled with fun facts and information on each (Cloverbud to age 10)
2. Hands-On Weather Experiments Box (Grades 4 - 6)
3. Hands-On Simple Weather Experiments Book (for you to pick and choose activities)
4. *The Kids Book of Weather Forecasting*
5. One laminated "weather map" to fasten to a wall for kids to take turns making forecasts. Weather symbols included to facilitate the weathercast. (Good for junior high through high school aged youth.)

Lawn and Garden Equipment Learning Laboratory Kit

Contents Educators' Resource Materials Set - This resource contains masters of the learning laboratory kit contents - situation/ task statements, charts and diagrams, identification tags, and instructions.

Topics/Contents

- Lawn and garden equipment identification prints
- Engine parts identification color prints
- Two-stroke and four-stroke engine diagrams
- Small engine maintenance poster
- Activity components covering equipment operation, safety, and troubleshooting
- Activity components covering refueling and oil selection, cleaning and winterizing equipment, blade care, and equipment lubrication
- 2-cycle engine model

Outdoor Education

Animal Call Box

This trunk is designed to help 4-H leaders teach waterfowl identification in a club setting. Activities are designed for youth ages 6 thru 19. The call box is designed as a hands on activity and consists of 4 separate parts.

1. Predator Calling - this section includes a number of calls used in calling predators along with written and taped instructions on how to use the calls, and short written instructions on when and where to do predator calling.
2. Big Game Animals - this section includes a number of calls used in calling big game animals along with when and where to call.
3. Turkey Calling - this part includes a number of different types of turkey calls along with written and taped instructions on how and when to use the calls.
4. History of Animal Calls - a short written session on who, when and why we used calls during hunting.

To complete one of the many activities in the box requires approximately ½ to 1 hour. Instructors are encouraged to choose activities best suited to time available, age, and skill level of participants. There are more activities in the trunk that can be used at one club meeting. You may want to use the trunk more than once.

Bird Watching Trunk

This kit contains binoculars, field ID books, an electronic bird song identifier, replica bird eggs and other resources to get youth and adults started in bird watching. The kit contains different size and types of binoculars so user can try out different styles of binoculars to determine which type is best suited to their needs. Also included in the kit is the bird watching in North Dakota guide developed by Floramay Miller and Dean Aakre.

Deer Aging Trunk

This trunk is designed to help 4-H members learn how to age deer by using visual and jaws key identification points in a club.

Activities in trunk will teach:

- Live deer age evaluation
- Teeth wear to age harvested deer
- The key aiming points on a deer to harvest a deer quickly and humanly
- Hands on activities include:
 - Picture exercise where youth match visual age to pictures of does and bucks
 - Jaw Bone Exercise #1 where youth using teeth wear clues to age deer jaws
 - Jaw Bone Exercise #2 where six stations with 4 jaw bones per station, each station has a question that needs to be answered. Youth must match one of the jaw bones to answer question(s).

Each activity in the box requires approximately 1/2 to 1 hour to complete. Instructors are encourage to choose activities best suited to time available, age, and skill level of participants. There are more activities in the trunk that can be used in one club meeting. You may want to use the trunk more than once.

Raptors (Hawks and Owls)

Learn more about hawks and owls. Explore the life of raptors by dissecting "owl pellets" and identifying the remains of prey animals in an owl's diet. The kit also includes skulls and other replica parts of hawks and owls and resource books with information about these raptors.



Tackle Crafting Trunks

• Each trunk is designed around the 4HCCS Sport Fishing Curriculum Helper Guide. Activities are designed to teach youth and adults about fish habits and preferences based on bait presentation methods.

1. **In-line Spinners** - this trunk is available to teach spinner making. This kit makes in-line *mepps* type spinners.

2. **Spinner Baits** - this trunk is used to create spinner baits designed for northern pike and bass fishing. Also used to teach skills in making lead head jigs which are used for a variety of fish species.
3. **Plastic baits** - this trunk is used to teach how to make soft plastic baits like frogs, worms and grubs.

Upland Game Bird Identification Trunk

This trunk is designed to help 4-H leaders teach upland game bird identification in a club setting. Activities are designed for youth ages 6 thru 19.

Trunk contents are:

- lesson plan
- upland game bird wings and quiz sheet
- upland game bird identification resources
- educational resources emphasizing *fun and learning*
- discussion questions

To complete the activity requires approximately ½ to 1 hour. Instructors are encouraged to choose activities best suited to time available, age, and skill level of participants.

Waterfowl Call Trunk

This trunk is designed to help 4-H learn when and how to use waterfowl calls in a club setting. Activities are designed for youth ages 6 thru 19.

Activities in Trunk will teach:

1. Recognize and identify sounds of geese and ducks
2. Learn to discriminate the different characteristics of these sounds
3. Integrate these characteristics to correctly use call in different situations
4. Have fun while learning

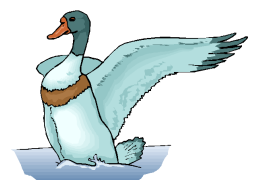
To complete the activity requires approximately ½ to 1 hour. Instructors are encouraged to choose activities best suited to time available, age, and skill level of participants.

Waterfowl Identification Trunk

This trunk is designed to help 4-H leaders teach waterfowl identification in a club setting. Activities are designed for youth ages 6 thru 19.

Trunk contents are:

- Lesson plan
- Books and ID cards to review the different identification characteristics of waterfowl
- Match the wing to the bird activity
- ID the waterfowl in the photo activity, photo sheets feature waterfowl in different environments that require identification



- Video tape resource that explains the key identification characteristics of waterfowl
- Educational resources emphasizing *fun and learning*
- Discussion questions
- Other hands on activities

To complete one of the many activities in the box requires approximately ½ to 1 hour. Instructors are encouraged to choose activities best suited to time available, age, and skill level of participants. There are more activities in the trunk that can be used in one club meeting. You may want to use the trunk more than once.

Whistling Dakota Style

Wood forms and instructions for making your own wooden whistles.

Outdoor Skills Resources available from other sources

(developed through a grant from the North Dakota 4-H Foundation, available from the sources listed below)

Fly Fishing - Fly Tying Educational Trunk

Youth learn about fly fishing and fly tying. Trunk contains ten fly rods with reels, ten sets of fly tying equipment, an educational video and CD, and a three-ring binder with hands-on activities.

Request the trunk well in advance and specify the approximate number of youth to be involved in the activity so adequate supplies can be included. Users will be charged for the fly tying supplies used. The trunk is housed in the Benson County office. Contact Scott Knocke at 701-473-5363.

Outdoor Survival Skills Educational Trunk

This trunk is composed of an easy-to-use curriculum, objects to assist in teaching each topic area, additional resources (including books, pamphlets, etc.) and activity sheets for each topic. Topics covered are:

- Basic Survival Skills
- Outdoor Tips & Tricks
- Poisonous Plants
- First Aid
- Fire Building
- Outdoor Cooking
- Weather Awareness

The trunk is housed in the Burleigh County office. Contact Cathy Palczewski at 701-221-6865 to reserve the trunk in advance.

[Outdoor Cooking](#)

Outdoor Cooking Trunk

Contains pots and pans, propane burners, propane, measuring cups and spoons, bowls, etc. Also contains a cookbook of trail and camping recipes.

Maple Sugar Candy Trunk

Contains pans and molds for making delicious maple sugar candy from maple syrup. Also contains a book of delicious ways to use maple syrup.

Dutch Oven Cooking Trunk

Kit contains several cast iron Dutch ovens, instructions and recipes for making everything from lasagna to caramel rolls in a Dutch oven over a camp fire or cook stove.

[Resource Curriculums](#)

"Minnesota's Natural Resources"

Using this activity requires check-out of the 4-H laptop computer bank. Participants will learn the powerful GIS software and how natural resources can be inventoried.

Many Faces - One People

Many Faces - One People is a multi-cultural training guide also found on the shelves of many county offices.

TAXI (Taking Anybody Into Expanded Involvement)

Helps develop a system to develop individuals as volunteer program managers. Many counties have this resource on their shelves.

Youth Learning Guide for working with Youth Technology programs

[Animal and Plant Science](#)

All learning laboratory kits are designed for hands on learning.

Beef Learning Laboratory Kit

Contents Educators Resource Materials Set-This resource contains masters of the learning laboratory kit contents-situation/task statements, charts and diagrams, identification tags, and instructions.

Topics/Content

- Educators' Curriculum Guide
- Critical Points of Quality Assurance and Animal Care Video
- Animal medication product label and insert posters
- Medication bottle and syringe-style pipette

- Animal skeleton structure poster
- Animal part identification poster
- Structural correctness poster focusing on feet and leg characteristics
- Wholesale meat cut poster
- Animal handling and management poster
- Color breed identification prints with name tags and trait descriptions
- Color retail meat identification prints
- Male Reproductive Tract poster
- Female Reproductive Tract poster
- Reproduction question cards and answer key

Dairy Learning Laboratory Kit

This resource contains a curriculum guide with *Critical Points of Quality Assurance and Animal Care* video.

Topics/Contents

- Situation/ task statements
- Charts and diagrams
- Identification tags
- Assembly instructions
- Resource Materials Set
- Animal medication product label and insert posters
- Medication bottle and syringe-style pipette
- Animal part identification poster
- Structural correctness poster focusing on feet & leg characteristics
- Ten-point quality assurance plan poster
- Planning calendar

- Udder model and teat dip cup
- Mammary posters
- Animal handling and management poster
- Color breed identification prints with name tags and trait descriptions
- Male Reproductive Tract poster
- Female Reproductive Tract poster
- Reproduction question cards and answer key

Dog Learning Laboratory Kit

Educators' Resource Materials Set - This resource contains masters of the learning laboratory kit contents - situation/ task statements, charts and diagrams, identification tags, and instructions.

Topics/Contents

- Animal part identification poster Animal conformation posters
- Care and grooming equipment identification diagrams and cards
- Animal handling, management, and restraint diagrams, prints, and activity components
- Common external parasites poster
- Common internal parasites poster
- Vaccination record poster
- Normal animal awareness/handling activity components
- Grooming activity components
- Animal safety and sanitation issues poster
- Color breed identification prints with name tags and trait descriptions and much more!

Goat Learning Laboratory Kit

This resource contains a curriculum guide with *Critical Points of Quality Assurance and Animal Care* video.

Topics/Contents

- Situation/ task statements
- Charts and diagrams
- Identification tags
- Assembly instructions
- Animal medication product label and insert posters
- Feet and leg structure and topline structure posters
- Animal part identification and skeleton structure posters
- Hoof trimming poster
- ADGA application for registration poster
- Tattooing poster
- Goat ear template poster
- Tattooing set
- Mammary attachment & teat structure posters
- Animal handling and management poster
- ADGA jr., sr., doe, and showmanship score card charts
- Medication bottle and syringe-style pipette
- Color breed identification prints with name tags and trait descriptions
- Digestive Track poster
- Digestive Track task cards
- Digestive Track matching cards and answer keys
- Digestive Track i.d. tags

Horse Learning Laboratory Kit

Contents Educators Resource Materials Set-This resource contains masters of the learning laboratory kit contents-situation/task statements, charts and diagrams, identification tags, and instructions.

Topics/Contents

- Educators' Curriculum Guide
- Animal medication product label and insert posters
- Animal skeleton structure poster
- Animal part identification poster
- Structural correctness poster-front, rear and side views
- Animal teen development identification cards
- Animal digestive tract identification poster
- Animal foot structure identification posters
- Feed and seed samples
- Ground handling Horses Safely video
- Equipment and tack identification color prints
- Plant material identification color prints
- Color breed identification prints with name tags and trait descriptions
- Injection Sites poster
- Medication Label Task card
- Medication Label answer key
- Injection Site task card & answer key
- Medication labels

Poultry Learning Laboratory Kit

This resource contains masters of the learning laboratory kit contents - situation/task statements, charts and diagrams, identification tags, and instructions.

Topics/Contents

- Bird medication product label and insert posters
- Bird part identification posters (cockerel, hen, duck, goose and turkey)
- Bird comb identification poster
- Brooding aerial view activity mat with manipulatives
- Chicken and turkey meat cut identification color prints
- Chicken carcass grading identification color prints
- Egg quality image color cards
- Evaluation and selection materials
- Breed identification color prints and trait descriptions

Rabbit Learning Laboratory Kit

Contents Educators Resource Materials Set-This resource contains masters of the learning laboratory kit contents-situation/task statements, charts and diagrams, identification tags, and instructions.

Topics/Contents

- Animal part identification poster
- Ailments and disorders poster
- Safe animal handling/caging activity mat (hutch aerial view)
- Structural correctness posters focusing on ears, hips, legs and tail
- Reading tattoos activity components
- Tattooing set
- Rabbit ear template
- Hutch diagram poster

- Faults and disqualification charts
- Sanitation and health activity components
- Rabbit sex determination activity components
- Rabbit genetics/selection poster, chart and image cards
- Color breed identification prints with name tags and trait descriptions

Sheep Learning Laboratory Kit

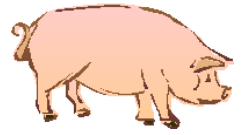
Contents Educators Resource Materials Set-This resource contains masters of the learning laboratory kit contents-situation/task statements, charts and diagrams, identification tags, and instructions.

Topics/Contents

- Educators' Curriculum Guide
- Critical Points of Quality Assurance and Animal Care Video
- Animal skeleton structure poster
- Animal part identification poster
- Wholesale meat cut poster
- Color retail meat identification prints
- Medication bottle and syringe-style pipette
- Animal medication product label and insert posters
- Structural correctness poster focusing on feet and leg characteristics
- Animal handling and management poster
- Color breed identification prints with name tags and trait descriptions
- Disease Location poster
- Disease matching cards

Swine Learning Laboratory Kit

Contents Educators Resource Materials Set-This resource contains masters of the learning laboratory kit contents-situation/task statements, charts and diagrams, identification tags, and instructions.



Topics/Contents

- Educators' Curriculum Guide
- Critical Points of Quality Assurance and Animal Care Video
- Animal medication product label and insert posters
- Color retail meat identification prints
- Color breed identification prints with name tags and trait descriptions
- Animal skeleton structure poster
- Ear notching pig head diagram
- Wholesale meat cut poster
- Animal handling and management poster
- Ear Notchers
- Color Loin prints
- Meat Science scenario card
- Measuring card and record cards
- Plastic measuring grid
- Meat Science CD-ROM

Plant Identification Learning Laboratory Kit

Its purpose is to introduce students to the basic concepts and terminology used in the identification of deciduous trees and shrubs. Rather than focus on memorizing specific traits of individual plant species, a holistic approach is used, teaching students to observe and appreciate plants in their totality.

- The kit and lesson plans provide introductory information that we hope will help students in overall plant identification, not identification by leaves alone. Before beginning the kit, students should know the importance of scientific names. They should be introduced to the concepts of plant species, cultivars, and varieties.

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Kit Contents

Educators' Manual - Lesson Plans: Plant Identification Characteristics for Deciduous Trees and Shrubs. This resource includes lesson plans, diagrams, quizzes, crossword puzzles and suggested indoor and outdoor activities.

Plant trunk habit, shape, size and texture

Types of bark, flowers and fruits.

Stem features

Leaf and bud arrangements/Bud scales

Expressive Arts

Scrapbooking Trunk

This trunk is designed to encourage youth to record and preserve their memories and/or heritage using photographs, journaling, memorabilia, and embellishments.

Resource Binder

Cutting Tools

Limited amount of paper

Stickers

Adhesives

Markers/Pens

Scissors – decorative & straight edge

Quilting for Fun

Includes five sewing machines, basic sewing supplies and lesson materials needed to complete a beginner quilt for approximately 5 participants. All materials can easily be adapted for use in any sewing activity leaders or instructors may wish to conduct.

Nutrition & Wellness

Eat Smart! Play Hard!

Are you looking for something to help your 4-H club be recognized as a Healthy 4-H Club? Are you looking for fun nutrition and physical activity ideas to incorporate into your club meetings and/or county activities?

Check out the Eat Smart! Play Hard! Resource Trunk. The trunk is filled with games and equipment to emphasize healthy eating and physical activity. The binder includes additional ideas and snack recipes.

To reserve any of these trunks, call the Ransom County Extension office at (701) 683-6128.