



**2023-2024**

**State 4-H Projects**

*Curriculum names are in italics and may not reflect actual exhibit requirements.*

For more info:  
[Colorado4h.org](http://Colorado4h.org)

**Juniors 8-10 years**  
**Intermediates 11-13 years**  
**Seniors 14-18 years**

All projects may be taken by Jr., Int., and Sr. members unless otherwise indicated by (\*).

**New or renamed state projects are highlighted in yellow.**

**Routt projects with leaders to ask questions in GREEN**

**Routt projects with leader run workshops in BLUE**

**Animal Science Projects:**

**Beef**  
Breeding Beef  
Market Beef  
*Beef Resource Handbook*

**Cats**  
Unit 1 – *Purr-fect Pals*  
Unit 2 – *Climbing Up*  
Unit 3 – *Leaping Forward*  
*Cat Helper's Guide*

**Dairy Cattle**  
*Dairy Resource Handbook*

**Dog**  
*Dog Resource Handbook*

**Goats**  
Breeding, Market, Dairy, Fiber, Pygmy, Utility  
*Goat Resource Handbook*

**Horse**  
*4-H Horse Project*  
*Horse Show Rulebook*  
*and more at Colorado4h.org*

**Horseless Horse**  
*4-H Horse Project*  
Unit 1 – *Making Horse Sense*  
Unit 2 – *Hooves, Health & Horsemanship*  
Unit 3 – *Breaking Ground*  
Unit 4 – *Brushing Up on Horses*

**Poultry**  
Breeding Chickens, Market Chickens, Show Birds, Breeding Turkeys, Market Turkeys, Duck, Geese, Pigeons & Game Birds

*Poultry Resource Handbook and more at Colorado4h.org*

**Rabbits**  
Breeding/Show  
Market  
Companion (Pet)  
*Rabbit Resource Handbook for Breeding, Market, and Pet Rabbit Projects*

**Sheep**  
Breeding Sheep  
Market Sheep  
*Sheep Resource Handbook for Market & Breeding Projects*

**Swine**  
Breeding Swine  
Market Swine  
*Swine Resource Handbook for Market & Breeding Projects*

**Veterinary Science**  
Unit 1 – *From Airedales to Zebras*  
Unit 2 – *All Systems Go!*  
Unit 3 – *On the Cutting Edge*  
*Vet Science Helper's Guide*

**Communication, Arts & Leisure Sciences Projects:**

**Ceramics**  
Unit 1 – Glazes  
Unit 2 – Underglazes  
Unit 3 – Overglazes  
Unit 4 – Unfired Finishes  
Unit 5 – Porcelain Dolls  
Unit 6 – Hand-Constructed with Stone or Earthenware  
*Ceramics All Units*

**Filmmaking**  
Animation, Narrative, Documentary, Promotional, Voices of 4-H History  
*4-H Filmmaking Workshop DVD*  
*Movie Magic*

**Global Citizenship**  
Study of Another Country  
Hosting a Delegate from Another Country  
\*Exchange Delegate to Another Country (Int./Sr.)  
*Global Citizenship*

**Leadership**  
\**Leadership Skills You Never Outgrow* (Jr Only)  
\**Leadership Road Trip* (Int./Sr.)  
\*Put Leadership to Practice/Club  
*Leadership 1* (Int./Sr.)

\**Refining Leadership Skills/Club Leadership 2* (Sr.)  
\**Community Service Project/My Hands to Larger Service* (Sr.)

**Leathercraft**  
Unit 1 - Introduction to Leathercraft and Creative Stamping  
Unit 2 - Beginning Leather Carving  
Unit 3 - Intermediate Leather Carving  
Unit 4 - Advanced Leather Carving  
Unit 5 - Advanced Stamping  
Unit 6 - Sewing Leather  
Unit 7 - Braiding and Un-tooled Leather  
Unit 8 - Master Leathercraft  
Unit 9 - Making and Rebuilding Saddles  
*4-H Leathercraft Manual*  
*Leathercraft Leader Guide*

**Photography**  
Unit 1 – *Photography Basics*  
Unit 2 – *Photography Basics (2<sup>nd</sup> Year)*  
Unit 3 – *Next Level Photography*  
Unit 4 – *Mastering Photography*  
Unit 5 – *Low Light Photography*  
\*Unit 6 – *Advanced Photography* (Int./Sr.)

**Scrapbooking**  
One Page Layout, Two Page Layout, Album, \*Tag Making (Jr.), and \*Card Making (Int./Sr.)  
*Scrapbooking*

**Visual Arts**  
*Portfolio Pathways-Painting and Printing*  
*Portfolio Pathways-Graphic Design*  
*Sketchbook Crossroads-Drawing*  
*Sketchbook Crossroads-Fiber & Sculpture*

**Family Consumer Science Projects:**

**Artistic Clothing**  
*Upcycle Your Style* (Applied, Stitched, Combination Design)  
Unit 4 - Recycled Clothing  
Unit 5 - Creative Sewing (Costumes, Other Items)  
\*Unit 6 - Buymanship (Int./Sr.)  
\*Unit 7 - Create Your Own (Int./Sr.)  
*STEAM Activity-Beyond the Needle*  
*Optional Weartec manuals available*

**Cake Decorating\***  
Unit 1 – *Edible Cake Decorating*  
Unit 2 – *Single Layered Cake*  
Unit 3 – *Two Layered Cake with Tips*  
*Cake Decorating, Units 1-3*  
Unit 4 – *Character Cakes*  
Unit 5 – *Small Treats*  
Unit 6 – *Cut-Up Cakes*  
*Cake Decorating, Units 4-6*  
\*Unit 7 – *Flat Surface & Nail Flowers* (Int./Sr.)  
\*Unit 8 – *Fondant* (Int./Sr.)  
\*Unit 9 – *Lily Nail Flowers* (Int./Sr.)



**Cake Decorating, Units 7-9**

- \*Unit 10 – Tiered Cakes (Sr. only)
- \*Unit 11 – Molds (Sr. only)
- \*Unit 12 – Create Your Own (Sr. only)
- Cake Decorating, Units 10-12**

**Clothing Construction**

- Unit 1 – STEAM Clothing 1  
FUNdamentals (Jr./Int./Sr.)
- Unit 2 – STEAM Clothing 2 Simply  
Sewing (Jr./Int./Sr.)
- \*Unit 3 – STEAM Clothing 3 A Stitch  
Further, 4-H Textile  
Experiments (Int./Sr.)
- Unit 4 – Sewing for Others (Jr./Int./Sr.)

**Foods and Nutrition**

- Unit 1 – Cooking 101
- Unit 2 – Cooking 201
- Unit 3 – Cooking 301
- Unit 4 – Cooking 401
- 4-H Cooking Helper's Guide

**Specialty Foods**

- Unit 5 – Outdoor Cooking & Living
- \*Unit 6 – Cultural and Ethnic Foods  
(Int./Sr.)
- \*Unit 7 – Passport to Foreign Cookery  
(Int./Sr.)

**Food Preservation**

- Unit 1 – Drying
- Unit 2 – Freezing
- Unit 3 – Boiling Water Canning
- \*Unit 4 – Pressure Canning (Int./Sr.)

**Heritage Arts**

- Crochet Units 1-3 The 4-H Crochet Handbook
- Knitting Units 1-3 The 4-H Knitting Handbook
- Misc. Fiber (Needle Arts, Weaving, Spinning, Felted Bags, Batiked Fabric, Hooked Pillows, Ethnic Arts, Rug Making, Macramé, etc.)
- Misc. Non-Fiber (Beading, Silver Smithing, Paper Scrolling, etc.)
- Quilting – Unit 1 You Can Quilt
- Quilting – Units 2-6 Quilting the Best Better

**Home Design & Décor**

- Unit 1
- Unit 2
- Unit 3
- Unit 4

**Mechanical Sciences Projects:**

**Computer Science**

- Discovering Computer Science & Programming Through Scratch Level 1 Facilitator Guide
- \*Discovering Computer Science & Programming Through Scratch Level 2 (Int./Sr.)
- \*Discovering Computer Science &

Programming Through Scratch Level 3 (Int./Sr.)

**\*Computer Science and Coding (Int./Sr.)**

**Electricity**

- Unit 1 – Magic of Electricity
- Unit 2 – Investigating Electricity
- Unit 3 – Wired for Power
- \*Unit 4 – Entering Electronics (Sr. Advanced)
- Electric Group Helper's Guide

**Metalworking**

- Unit 1 – Introduction to Welding
- Unit 2 – Metal Fabrication
- Unit 3 – Advanced Metal Fabrication
- Unit 4 – Large Exhibit Fabrication
- Arcs & Sparks, Units 1-3

**Model Rocketry**

- Unit 1 – Introduction to Model Rocketry
- Unit 2 – Construction & Flight of Model Rockets
- Unit 3 – Intermediate
- Unit 4 – Advanced
- \*Unit 6 – Designer (Int./Sr.)

**Robotics & Engineering**

- Unit 1 – Give Robots a Hand
- Unit 2 – Robots on the Move
- Unit 3 – Mechatronics
- Unit 4 – Robotics Platforms Beginners
- Unit 5 – Robotics Platforms Intermediate
- Unit 6 – Robotics Platforms Advanced
- Unit 7 – Team Robotics
- Youth Robotics Notebook
- Robotics with EV3

**Small Engines**

- Unit 1 – Crank It Up
- Unit 2 – Warm It Up
- Unit 3 – Tune It Up
- \*Unit 4 – Advanced Engines—Self-Determined (Int./Sr.)
- Small Engines Helper's Guide

**Woodworking**

- Unit 1 – Measuring Up
- Unit 2 – Making the Cut
- Unit 3 – Nailing It Together
- Unit 4 – Finishing Up
- Woodworking Wonders Helper's Guide

**Natural Resources Projects:**

**Beekeeping**

- Unit 1 – Beekeeping Division 1
- Unit 2 – Beekeeping Division 2
- Unit 3 – Beekeeping Division 3
- \*Unit 4 - Advanced Beekeeping (Int./Sr.)

**Entomology**

- Teaming with Insects – Level 1
- Teaming with Insects – Level 2
- Teaming with Insects – Level 3

Teaming with Insects Facilitator's Guide

**Gardening**

- Unit 1 – See Them Sprout
- Unit 2 – Let's Get Growing!
- Unit 3 – Take Your Pick
- \*Unit 4 (Sr. only) – Growing Profits
- Gardening Helper's Guide

**Outdoor Adventures**

- Unit 1 – Hiking Trails
- Unit 2 – Camping Adventures
- Unit 3 – Backpacking Expeditions
- Outdoor Adventure Helper's Guide

**Shooting Sports**

- Air Rifle
- Archery – Basic Archery
- .22 Rifle – 4-H Rifle
- .22 Pistol – 4-H Pistol
- Shotgun – 4-H Shotgun
- Muzzleloading
- Air Pistol
- Outdoor Skills
- Western Heritage – 4-H Western Heritage Project

**Sportfishing**

- Unit 1 – Take the Bait
- Unit 2 – Reel in the Fun
- Unit 3 – Cast into the Future
- Sportfishing Helper's Guide

**Wildlife**

- Unit 1 – The Worth of Wild Roots
- Unit 2 – Living Wild in an Ecosystem
- Unit 3 – Managing in a World with You and Me
- Wildlife Stand Alone

**Supplemental:**

**Self-Determined**

**Cloverbuds (Ages 5-7 Years):**

- Cloverbuds: A 4-H Discovery Program for 6-8 Year Olds
- Cloverbuds Activity Package

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