



## 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.**

### 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](http://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](http://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 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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