

Mechanical Sciences:

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)*

Metalworking

Unit 1 - Introduction to Metalwork
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 Small 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:

Beekeeping

Unit 1 – 4-H Beekeeping Division 1
Unit 2 – 4-H Beekeeping Division 2
Unit 3 – 4-H Beekeeping Division 3
**Unit 4 - Advanced Beekeeping (Int./Sr.)*
4-H Beekeeping Helper's Guide

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



COLORADO STATE UNIVERSITY
EXTENSION



2023-2024

State 4-H Project List



Learn More

Colorado4h.org

Contact your local Extension Office at
<https://extension.colostate.edu/staff-directory/>

4-H Age Categories

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

Ages are as of Dec. 31 of the current 4-H year.
All projects may be taken by Jr., Int., and Sr.
unless indicated by (*).

Items in orange are new or renamed from last year.

For more information and exhibit requirements go to Colorado4h.org.

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

Animal Science:

Beef

Breeding, Market
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 & 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 & more at Colorado4h.org

Rabbits

Breeding/Show, Market, Companion (Pet)
Rabbit Resource Handbook for Breeding, Market, & Pet Rabbit Projects

Sheep

Breeding, Market
Sheep Resource Handbook for Market & Breeding Projects

Animal Science Continued:

Swine

Breeding, Market
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:

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, Host 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 (Int./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 (Year 2)
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. Only), and *Card Making (Int./Sr.)
Scrapbooking

Visual Arts

Portfolio Pathways - Painting and Printing
Portfolio Pathways - Graphic Design
Sketchbook Crossroads - Drawing
Sketchbook Crossroads - Fiber and Sculpture

Family Consumer Science:

Artistic Clothing*

Upcycle Your Style (Applied, Stitched, Combination Design)
Recycled Clothing
Creative Sewing (Costumes, Other Items)
*Buymanship (Int./Sr.)
*Create Your Own (Int./Sr.)

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

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 & 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, Ethnic Arts, Rug Making, Macramé, etc.)
Misc. Non-Fiber (Beading, Silver Smithing, Paper Scrolling, etc.)
Quilting Unit 1 - You Can Quilt
Unit 2-6 - Quilting the Best Better!

Home Design & Décor

Units 1-4 - Home Design & Décor Unit 1-4 Manuals

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