

MECHANICAL SCIENCES

BICYCLE

Superintendent: TBA

Unit 1 – Bicycling For Fun

- Class 100. Junior
- Class 101. Intermediate
- Class 102. Senior

Unit 3 - Bicycle Self-Determined

- Class 106. Intermediate
- Class 107. Senior

Unit 2 – Wheels In Motion

- Class 103. Junior
- Class 104. Intermediate
- Class 105. Senior



Grand Champion **Junior**.....Rosette
 Reserve Grand Champion **Junior**Rosette

Grand Champion **Senior**.....Rosette
 Reserve Grand Champion **Senior**.....Rosette

Grand Champion **Intermediate**.....Rosette
 Reserve Grand Champion **Intermediate**...Rosette

All Exhibits will consist of the following:

- Project Manual will be completed and e-record presented in a sturdy binder.
- A display board illustrating a topic investigated during the project year. The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included on or in front of display board.

Exhibitors will participate in an interview.

COMPUTERS

Superintendent: TBA

Unit 1 NEWBIE KNOW-HOW

- Class 108 Newbie Know-How - Jr.
- Class 109 Newbie Know-How - Int.
- Class 110 Newbie Know-How - Sr.



Unit 3 P2P—PEER TO PEER

- Class 113 P2P—Peer to Peer - Int.
- Class 114 P2P— Peer to Peer - Sr.

Unit 2 INSIDE THE BOX

- Class 111 Inside the Box – Int..
- Class 112 Inside the Box – Sr.

Unit 4 Teens Teaching Tech

- Class 115 Teens Teaching Tech – Sr.

Grand Champion **Junior**.....Rosette
 Reserve Grand Champion **Junior**Rosette

Grand Champion **Senior**.....Rosette
 Reserve Grand Champion **Senior**.....Rosette

Grand Champion **Intermediate**.....Rosette
 Reserve Grand Champion **Intermediate**...Rosette



ELECTRICITY

Superintendent: Chuck Kem

Unit 1 - Magic of Electricity

- Class 116 Magic of Electricity - Jr.
- Class 117 Magic of Electricity - Int.
- Class 118 Magic of Electricity - Sr.

Unit 3 – Wired for Power

- Class 122 Wired for Power – Jr.
- Class 123 Wired for Power – Int.
- Class 124 Wired for Power – Sr.

Unit 2 – Investigating Electricity

- Class 119 Investigating Electricity - Jr.
- Class 120 Investigating Electricity – Int.
- Class 121 Investigating Electricity - Sr.

Unit 4 – Entering Electronics

- Class 125 Entering Electronics – Sr.

Grand Champion **Junior**.....Rosette
Reserve Grand Champion **Junior**Rosette

Grand Champion **Senior**.....Rosette
Reserve Grand Champion **Senior**.....Rosette

Grand Champion **Intermediate**.....Rosette
Reserve Grand Champion **Intermediate**...Rosette

Check out Colorado 4-H State Fair Exhibit Requirements for the specifics for this project, at www.tra4h.org under Mesa County then Projects

GEOSPATIAL

Superintendent: TBA



Unit 1 – Setting Out

- Class 126 Setting Out – Jr
- Class 127 Setting Out – Int.
- Class 128 Setting Out – Sr.

Unit 3 – Reaching Your Destinations

- Class 132 Reaching Your Destinations - Jr
- Class 133 Reaching Your Destinations – Int
- Class 134 Reaching Your Destinations – Sr.

Unit 2 – On The Trail

- Class 129 On The Trail – Jr.
- Class 130 On the Trail – Int.
- Class 131 On the Trail – Sr.

Unit 4 – Group Projects (Developed by two or more 4-H members)

- Class 135 Group Project – Jr.
- Class 136 Group Project – Int.
- Class 137 Group Project – Sr.

Exhibit will consist of the following:

- At least a one page story about the project including these items: purpose of map, goals, plan, accomplishments, evaluation, and how each person on the team contributed to the project.
- Hand drawn or computer generated map (map can be either informational or directional).
- Posters/Maps must be presented on display board. The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included on or in front of display board. Exhibitors are encouraged to laminate all posters/maps or cover them with clear plastic film.

Grand Champion **Junior**.....Rosette
Reserve Grand Champion **Junior**Rosette

Grand Champion **Senior**.....Rosette
Reserve Grand Champion **Senior**.....Rosette

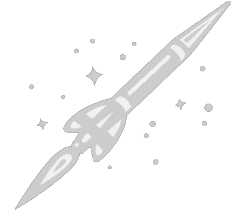
Grand Champion **Intermediate**.....Rosette

MODEL ROCKETRY

Superintendent: Darrel Martin

CLASS

- 138. Unit 1 - Introduction Rocketry - Junior (Balsa Fins)
- 139. Unit 1 - Introduction Rocketry - Intermediate (Balsa Fins)
- 140. Unit 1 - Introduction to Rocketry - Senior (Balsa Fins)
- 141. Unit 2 – Basic Model Rocketry - Junior (Balsa Fins Only)
- 142. Unit 2 - Basic Model Rocketry - Intermediate (Balsa Fins Only)
- 143. Unit 2 - Basic Model Rocketry - Senior (Balsa Fins Only)
- 144. Unit 3 - Intermediate Model Rocketry - Junior ((Balsa Fins Only)
- 145. Unit 3 - Intermediate Model Rocketry - Intermediate (Balsa Fins Only)
- 146. Unit 3 - Intermediate Model Rocketry - Senior (Balsa Fins Only)
- 147. Unit 4 - Advanced Model Rocketry - Junior (Finished Fins of Any Type)
- 148. Unit 4 - Advanced Model Rocketry - Intermediate (Finished Fins of Any Type)
- 149. Unit 4 - Advanced Model Rocketry - Senior (Finished Fins of Any Type)
- 150. Unit 6 - Designer Model Rocketry - Junior (Finished Fins of Any Type)
- 151. Unit 6 - Designer Model Rocketry - Intermediate (Finished Fins of Any Type)
- 152. Unit 6 - Designer Model Rocketry - Senior (Finished Fins of Any Type)



Grand Champion **Junior**.....Rosette

Reserve Grand Champion **Junior**Rosette

Grand Champion **Senior**.....Rosette

Reserve Grand Champion **Senior**.....Rosette

Grand Champion **Intermediate**.....Rosette

Reserve Grand Champion **Intermediate**...Rosette

Check out Colorado 4-H State Fair Exhibit Requirements for the specifics for this project, at www.tra4h.org under Mesa County then Projects

Power of Wind

Superintendent: TBA

Power of Wind --- Powered Vehicle

- Class 153 Powered Vehicle - Jr.
- Class 154 Powered Vehicle - Int.
- Class 155 Powered Vehicle - Sr.



Power of Wind --- Other

- Class 162 Other – Jr.
- Class 163 Other – Int.
- Class 164 Other – Sr.

Power of Wind --- Powered Machine

- Class 156 Powered Machine - Jr.
- Class 157 Powered Machine - Int.
- Class 158 Powered Machine - Sr.

Group Projects (Developed by two or more 4-H members)

- Class 165 Group Project – Jr.
- Class 166 Group Project – Int.
- Class 167 Group Project – Sr.

Power of Wind ---Sculpture

- Class 159 Wind Sculpture - Jr.
- Class 160 Wind Sculpture - Int.
- Class 161 Wind Sculpture - Sr.

Grand Champion **Junior**.....Rosette
 Reserve Grand Champion **Junior**Rosette
 Grand Champion **Intermediate**.....Rosette
 Reserve Grand Champion **Intermediate**...Rosette

Grand Champion **Senior**.....Rosette
 Reserve Grand Champion **Senior**.....Rosette

Check out Colorado 4-H State Fair Exhibit Requirements for the specifics for this project, at www.tra4h.org under Mesa County then Projects

SMALL ENGINES

Superintendent: Chuck Kem

CLASS

- 168. Unit 1-Crank It Up-Junior
- 169. Unit 1-Crank It Up-Intermediate
- 170. Unit 1-Crank It Up-Senior
- 171. Unit 2-Warm It Up-Junior
- 172. Unit 2-Warm It Up-Intermediate
- 173. Unit 2-Warm It Up-Senior
- 174. Unit 3-Tune It Up-Junior
- 175. Unit 3-Tune It Up-Intermediate
- 176. Unit 3-Tune It Up-Senior
- 177. Unit 4-Advanced Small Engines-Junior
- 178. Unit 6-Advanced Small Engines-Intermediate
- 179. Unit 6-Advanced Small Engines-Senior



Grand Champion **Junior**.....Rosette
 Reserve Grand Champion **Junior**Rosette
 Grand Champion **Intermediate**.....Rosette
 Reserve Grand Champion **Intermediate**...Rosette

Grand Champion **Senior**.....Rosette
 Reserve Grand Champion **Senior**.....Rosette

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