# 4-H Model Rocket Judging Score Sheet

Exhibitor’s Name: ________________________________________________

Class: 3160 3161 3162 3163 3164 3165 3166 3167 3168 3169 3170 3171 3172

1=Excellent   2=Good       3=Fair       4=Shows Promise    5=Needs Improvement   NA=Not Applicable

### General Exhibit Requirements:

- Appropriate skill level for age
- No engines or igniters
- Display stand less than 8” X 8” X 4½” or stands unassisted
- Sturdy support rod not extending past the tip of the nose cone
- No pre-finished fins
- No safety violations noted

### Report:

- Exhibitor information form completed and signed
- Includes photos (can have up to 5 pages)
- Includes plans
- Written documentation of flight damage (if any)
- Documented modifications (if any)
- Altitude measurement described (computer program, altimeter, etc.)
- Rocket has been flown (staged rockets need only fly the upper stage)
- Burn ban in effect

### Construction:

- Fins attached within +/- 2 degree variation
- Wooden parts sanded smooth
- Fin edges rounded or streamlined to reduce drag
- Launch lug(s) aligned properly and glued firmly
- Fins and launch lug(s) filleted for strength
- Nose cone snug but not too tight
- Plastic part(s) seams sanded smooth
- Body grooves filled
- Shock cord and recovery system attached
- Engine mounts

### Finishing Quality:

- Wooden and paper parts sealed prior to painting
- Paint smooth and uniform
- Decals applied smoothly
- If scale model, correct paint scheme and finished to plans (otherwise NA)

### Scratch Built/Original Design:

- Design is original, not merely a modification of an existing kit
- Written description of preflight stability testing
- Rocket swing tested prior to flight & flight(s) indicate stable design
- Includes detailed instructions

### High/Mid Power (2 ‘D’ engines or above):

- High & Mid Power Information Form completed
- Older than 14 years of age
- Has NAR or Tripoli membership (and working on or holds Level 1 certification or TMP if applicable)
- Includes copy of waiver if applicable
- Mid Power flown with 2x ‘D’ to ‘G’ engine
- High Power flown with a ‘H’ or ‘I’ engine
- No safety violations noted

Ribbon: Purple   Blue    Red    White    Disqualify