# 4-H Model Rocket Judging Score Sheet

**Exhibitor’s Name:** ______________________________________________________________

<table>
<thead>
<tr>
<th>Class:</th>
<th>3100</th>
<th>3101</th>
<th>3102</th>
<th>3104</th>
<th>3105</th>
<th>3106</th>
<th>3107</th>
<th>3108</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1=Excellent</td>
<td>2=Good</td>
<td>3=Fair</td>
<td>4=Shows Promise</td>
<td>5=Needs Improvement</td>
<td>NA=Not Applicable</td>
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</tbody>
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## General Exhibit Requirements:

- **Appropriate skill level for age**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **No engines or igniters**
  - 1

- **Display stand less than 8” X 8” X 4½” or stands unassisted**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Sturdy support rod not extending past the tip of the nose cone**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **No pre-finished fins**
  - 1

- **No safety violations noted**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

## Report:

- **Exhibitor information form completed and signed**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Includes photos (can have up to 5 pages)**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Includes plans**
  - 1

- **Written documentation of flight damage (if any)**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Documented modifications (if any)**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Altitude measurement described (computer program, altimeter, etc.)**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Rocket has been flown (staged rockets need only fly the upper stage)**
  - 1

- **Burn ban in effect**
  - 1

## Construction:

- **Fins attached within +/- 2 degree variation**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Wooden parts sanded smooth**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Fin edges rounded or streamlined to reduce drag**
  - (If instructions say to leave flat = NA) (Rounding all edges is not required)
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Launch lug(s) aligned properly and glued firmly**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Nose cone snug but not too tight**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Plastic part(s) seams sanded smooth**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Body grooves filled**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Shock cord and recovery system attached**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Engine mounts**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

## Finishing Quality:

- **Wooden and paper parts sealed prior to painting**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Paint smooth and uniform**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **Decals applied smoothly**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

- **If scale model, correct paint scheme and finished to plans (otherwise NA)**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA=Not Applicable

## Scratch Built/Original Design:

- **Design is original, not merely a modification of an existing kit**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

- **Written description of preflight stability testing**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

- **Rocket swing tested prior to flight & flight(s) indicate stable design**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

- **Includes detailed instructions**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

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

- **High & Mid Power Information Form completed**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

- **Older than 14 years of age**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

- **Has NAR or Tripoli membership (and working on or holds Level 1 certification or TMP if applicable)**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

- **Includes copy of waiver if applicable**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | NA

- **Mid Power flown with 2x ‘D’ to ‘G’ engine**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

- **High Power flown with a ‘H’ or ‘I’ engine**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

- **No safety violations noted**
  - 1=Excellent | 2=Good | 3=Fair | 4=Shows Promise | 5=Needs Improvement | DQ

## Ribbon:

- Purple
- Blue
- Red
- White
- Disqualify