

# 4-H Model Rocketry

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		Points Possible	Points Tally
A.	Flight capability	-	
B. W  C. Ro  D. De	Recovery system (parachute or streamer packed correctly shock cord firmly attached)	, 10 points	
	Launch lugs (straight, alignment)	3 points	
	Fin assembly (spacing, alignment)	15 points	
	Engine assembly (firmly mounted)	2 points	
	TOTAL	30 POINTS	
B.,	Workmanship		
	Sanding and sealing	8 points	
	Gluing (proper filler on fins and lugs)	10 points	
	Painting	10 points	
	Decals, pin striping, detailing, etc.	4 points	
	TOTAL	reamer packed correctly, ached)  (1) 3 points (2) 15 points (3) 2 points (4) 30 POINTS  TOTAL 30 POINTS   8 points (5) 4 points (6) 4 points (7) TOTAL 30 POINTS  Note: Display stands are not required. If provided, it is not to be evaluated.  10 points 11 level) 12 points 13 points 14 points 15 points 16 points 17 points 18 points 19 points 19 points 10 points 10 points 10 points 11 level) 12 points 13 points 14 points 15 points 16 points 17 points 18 points 18 points 19 points 19 points 10 points 10 points 10 points 10 points 11 launch) 12 points 13 points 14 points 15 points 16 points 17 points 18 points 19 points 19 points 10 points 10 points 10 points 11 points 12 points 13 points 14 points 15 points 16 points 17 points 18 points 19 points 19 points 10 points 10 points 10 points 10 points 11 points 12 points 13 points 14 points 15 points 16 points 17 points 18 points 19 points 19 points 10	
$C_{\infty}$	Rocket Appearance & Difficulty (multiple stages or other considerations)		
	6-8 Good 9-10 Excellent required. If provided, not to be evaluated.	(parachute or streamer packed correctly, k cord firmly attached)  raight, alignment)  acing, alignment)  (firmly mounted)  TOTAL  30 POINTS  TOTAL  30 POINTS  acing  8 points  TOTAL  30 POINTS  acing  8 points  10 points  8 points  10 points  8 points  10 points	
D.	Degree of difficulty (based upon skill level) Should commensurate with years of experience - points to be subtracted at judge's discretion - up to 5 points		
E.	Statement		
	Flight characteristics (minimum of 1 launch)	10 points	
D, I	Number of launching 1st 5 points		
		8 points	
	TOTAL	28 POINTS	
D.	Questions about model rocket construction, stability and fligh performance, engines, launch safety, and recovery.	t	
	TOTAL	12 POINTS	
	FINAL TO	system (parachute or streamer packed correctly, shock cord firmly attached)  s (straight, alignment)  s (straight, alignment)  s (spacing, alignment)  TOTAL  TOTAL  30 POINTS  d sealing  per filler on fins and lugs)  d sealing  per filler on fins and lugs)  TOTAL  TOT	75C 75L
	C. P. C.		

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**RIBBON** 

#### ROCKET LAUNCHING COMPETITION

Class\_\_\_\_

Nai	ne		Club			
				_1st	2nd	3rd
Α.	Saf	ety Procedures & Site maintenance (20 p	points)			
	1.	Launch rod covered before	(1 point)			
		Launch rod covered after	(1 point)			
	2.	Proper preparation of rocket for launc	ch .			
		a. wadding (fire resistant)	(1 point)			
		b. talcum	(1 point)			
		c. parachute & shroud line or streams	er (1 point)			
		d. packing (not too tight)	(1 point)			
	3.	Proper use of igniters	(2 points)			
	4.	Proper use of ignition devices	?			
	5.	Check around & overhead for aircraft balloons, etc.	(2 points)-		_	_
	6.	Proper launch angle (not too shallow) 450	(2 points)	_		
	7.	Stand stability	(2 points)			
	8.	Countdown (clear yell)	(2 points)		-	
	9.	How to approach in case of igniter mis	fire (2 points)			
	10.	Clean up				
		a. wadding b. igniters	(1 point) (1 point)		_	
		Total poin	nts			
В.	Rec	cording Flight Data (20 points)				
C.	Rec	overy within 5 feet of launch site (10	points per launch)			
		overy within 30 feet of launch site (7				
		Recovery within 45 feet of launch site (5 points per launch)				
	Rec	overy within 60 feet of launch site (4				
	Rec	overy within 75 feet of launch site (3	points per launch)			1
	Recovery within 90 feet of launch site (2 p					
		overy within 105 feet of launch site (1			5 <u></u> -	
		ree launches				
	Ве	engine = 1 time recovery points engine = 2 times recovery points engine = 3 times recovery points				

### Launch Record

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Flight Number	1	2	3
Date of Launch			
Launch Location			
Payload: Description/Weight			
Recovery System: Type/Color	j:		
Engines (No.,Type):		- , .	
Total Weight			
Method of Launch			
Launch Angle			
Remarks			

#### Weather

Wind Direction	
Wind Velocity	
Humidity	
Temperature	
Visibility	
Remarks	

## Flight Data

Estimated altitude	* *	
Tracking information		
Flight Duration		
Stability Information		
Flight Performance		

\_\_\_\_check for additional comments listed on back