

Tier Determination

1. Team hit BOTH target areas
 2. Team hit only ONE target area
 3. Team hit NO target area
 4. Does not meet construction criteria – violates 3 a, b, c +/- d
 5. DQ – see reason below
 (Construction Qualification below)

Tier: _____

Final Score _____

School Name: _____

Team Name: _____

Trajectory – B

San Diego Regional Science Olympiad – February 2, 2008

Student(s): 1.) _____

2.) _____

CONSTRUCTION QUALIFICATION		Launch 1	Launch 2	Launch 3	Launch 4
In ready-to-launch position entire device fits in an 80 cm cube					
Launch force = non-metallic elastic solids					
No radio control – battery control OK					
Device is triggered remotely from outside launch area					
Team provided projectile – hollow ball, Diam = 3 cm – 9 cm					
LAUNCH OPERATION Allow 10 minutes (use a stop watch) for prep + 4 launch attempts					
Team wore safety glasses (no glasses = DQ)					
Team did not touch device during launch					
Team not in launch area during launch					
Before & after launch, device fits in 80 cm cube					
Team operated device safely – if not = DQ					
Team received assistance, coaching, tools, supplies = DQ					
PENALTIES – 100 points each					
Team warned for improper wear of safety glasses					
Student was in launch or target areas during launch					
Unintentional launch / No warning given before launch					
Any part of device goes outside 1 m x 1.5 m launch area					
Penalty Total for 4 launches = _____					
SCORING – in mm					
Target score – Distance from center of impact to center of target	Close Target	Close Target	Far Target	Far Target	
Hit target area			-		
Target score					

CLOSE TARGET - If miss target area = 700 mm

FAR TARGET – measure to target center even if misses target area

GRAPHS	1	2	3	4
Complete data table – 20 pt				
Graph – 20 pt				
Graph matches table – 20pt				
Graph properly labeled - 40 pts/ name, units, axes				

Total reduction points: _____

Total Graph points: 400 pt - _____ = _____
 Reduction pt total for 4 graphs graph points

Lower launch score for CLOSE target _____ mm

Lower launch score for FAR target + _____ mm

Graph points + _____

Penalty points + _____

TOTAL _____