Participant/Team ID# _____

CATAPULT DESIGN

2016 & 2017 OFFICIAL RATING FORM		MIDDLE SCHOOL

Catapult Design Specifications Compliance Go or No-Go

A catapult that is marked No-Go for any of the requirements below will not advance to the performance stage of the event.

Team members must have safety goggles.	Go	No-Go
The catapult can be weighed down with a sand bag.	Go	No-Go
The catapult is the correct size.	Go	No-Go
The catapult is built with the correct materials.	Go	No-Go
The catapult launches with a pull cord.	Go	No-Go
The catapult has a safe launching mechanism.	Go	No-Go
The catapult is safe to operate.	Go	No-Go

Design Portfolio (50 points)

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Portfolio (X1)	Portfolio is unorganized and/or missing three or more components.	Portfolio has most components, and it is somewhat organized.	One or no components are missing in the portfolio, and content and organization are clear.
Research (X1)	There is little evidence of research to help determine the design for a catapult.	Some research is present to help determine the design for a catapult.	Ample and thorough research to help determine the design for a catapult is evident.
Design log (X2)	Design log lacks information about the design process (including testing and adjustments) for the final catapult.	Design log adequately conveys the design process (including testing and adjustment) for the final catapult.	Design log provides thorough and quality information about the design process (including testing and adjustments) for the final catapult.
Sketches and pictures (X1)	Sketches and/or pictures do not help illustrate the design process.	Sketches and/or pictures are appropriate and help illustrate the design process.	Sketches and/or pictures are of excellent quality and thoroughly illustrate the design process.
		SUBTOTAL (50 points)	

Catapult Performance

	# Hollow Plastic Practice Golf Balls	Score
Red target - 5 points each		
Green target - 2 points each		
Blue target - 1 point each		
	PERFORMANCE SUBTOTAL	

Rules violations (a deduction of 20% of the total possible points) must be initialed by the evaluator, coordinator and manager of the event. Record the deduction in the space to the right.

Indicate the rule violated: _____

(To arrive at the TOTAL score, add any subtotals and subtract rules violation points, as necessary.)	TOTAL SCORE

Comments:

I certify these results to be true and accurate to the best of my knowledge.

Evaluator

Printed name: _____   Signature: _____

Technology Student Association (TSA) Middle School Competitive Events Guide for the 2016 and 2017 National TSA Conferences

Catapult Design