



Professional Engineers
Ontario

Mississauga
Chapter



Performance Evaluation

Bridge Building Challenge 2018 (BLANK SAMPLE)

Team #		Grade		Team Name		
No Photo Taken						
Category (weighting)		Scores				
Construction Technique & Quality (15%)	Judge A	Judge B	Judge C	Result		
Creativity & Aesthetics (15%)	Judge D	Judge E	Judge F	Result		
Engineering Analysis (30%)	Judge G	Judge H	Judge I	Result		
Bridge Testing (40%)	Does bridge have 500 mm span? Yes or No			mm		
	Max. load registered by bridge buster before failure			lbs.		
	Bridge mass (x 0.00220462)		grams	lbs.		
	Strength to mass ratio (ensure strength and mass are in lbs)					
	Fraction of target strength to mass ratio (100) achieved?					
	Penalties (Judges call req'd)		-2% for every stick over 200			
			-25% if a small toy car cannot "drive" across bridge			
Bonuses (Judge call req'd)		+2% for every 25 units over 100 achieved (round down)				
FINAL SCORE						

Comments by Judges: