

Tier Determination

Tier: _____

Tier 1: Teams with no violations of the rules _____

Tier 2: Teams with any violations of the rules – **write what the violations were on the back of this page** _____Tier 3: Interference by a coach, parent or conversation with another team **DQ** _____**Keep the Heat B**

San Diego Regional Science Olympiad – 2012

School Name: _____

Team Name: _____

Student(s): 1.) _____

2.) _____

CONSTRUCTION QUALIFICATION - AT IMPOUND	Yes
2 identical 250 ml Pyrex beakers – height \approx 1.4 X diameter	
Device fits in 30.0 x 30.0 x 30.0 cm cube	
Permitted materials: wood, paper, cardboard, natural fibers, organic granular material, aluminum foil, fastening materials	
Fastening materials do NOT contribute to insulating properties Prohibited materials: foam (plastic, metal, expandable glue, etc.), plastic (except for fastening materials above), bubblewrap, glass, commercial insulation, etc.	
Hole directly above beaker in device \geq 1.5 cm diameter	
Surface of hole < 5 cm above top lip of beaker	
There are no energy sources to keep water warm	
All parts of device are at or near room temperature at Impound.	
OPERATING DEVICE	
Eye protection #4 for participant(s) Chemical/Splash Protection Goggles (ANSI Z87)	
Students easily able to insert and remove beakers from device	
Hole remained open during competition	
Device can be taken apart for inspection of construction materials	
PLOTS	
Plot labeled with school and student(s) names	2 pts
Title of plot is appropriate; X and Y axes are labeled	2 pts
Units and axes increments are appropriate	2 pts
One point for each data plot on a graph – or # graphs	4 pts max

Plot points: = _____

10 pts max