

MESA 2012 MIDDLE SCHOOL SURVIVAL BOAT COMPETITION

Judges Checklist

School: _____ Team #: _____

Inspection and Impound

- ___ Device fits within the 6" x 6" required space and is one connecting piece.
- ___ The boat is made entirely of paper and glue ONLY. No decorative materials, etc.
- ___ The paper used is plain paper and not altered (wax paper, wrapping paper, newspaper, etc.).
- ___ The mass of the boat does not exceed 10g.
- ___ Device does not contain any air pockets/chambers.
- ___ The weights will not be secured to the vehicle with an adhesive material.
- ___ Device is labeled with school name and team number.
- ___ Display Board is impounded and labeled with team information.

Notes:

- Devices must be in testing condition prior to device inspection.
- Only devices passing inspection will be allowed to participate in the performance tasks.

Final Competition Results:

Trial	Time (s)	Total Mass (Pennies)	Notes	Non-Sink Bonus (Y/N)
1				

Penny Drop Summary: (Mark how many pennies are added at each :30 drop)

T	# Pennies	T	# Pennies	T	# Pennies	T	# Pennies	T	# Pennies
Init		2:00		4:00		6:00		8:00	
:30		2:30		4:30		6:30		8:30	
1:00		3:00		5:00		7:00		9:00	
1:30		3:30		5:30		7:30		9:30	

Notes:

- **The Total Mass is the number of pennies successfully floated for a full :30s increment.**
- If drop is not all at once, mass is touched after drop, or boat is touched it is considered a sink.
- Trial setup is limited to 3 minutes for each trial.
- Time is measured to tenth of seconds (0.1 s).

Judge Initials: _____ Student Initials: _____

Does Performance Portion Meet Minimum Requirements (20p for 1 min)? Y/N	
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Display Scoring: Mark Value if all requirements met. Mark 0 if not.

	Team Information Section: (5 POINTS)	
	Display shows project title, school name, team number, and team members.	_____
	Display has a maximum display area of 36" x 48" x 12"	_____
	Supply List: (5 POINTS)	
	Display has a supply list which shows ALL supplies used, quantity, and where obtained.	_____
	Key Concepts: (5 POINTS)	
	(5) Mathematical, Scientific, and/or Engineering Concepts are Presented and Relevant to the project.	_____
	Student Team can relay information about presented concepts.	_____
	Scientific Method: (5 POINTS)	
	All Steps are included and related to the project (see handout).	_____
	Student Team can relay information about presented steps.	_____
	Engineering Process: (5 POINTS)	
	All Steps are included and related to the project (see handout).	_____
	Student Team can relay information about presented steps.	_____

Journal Log: # of postings are presented and related to the project (mark Y where appropriate)-(10 PTS)

_____ 5 Postings+ (10 Pts) _____ 3-4 Postings (5 Pts) _____ 2 or Less Postings (0)

Scaled Drawing: (10 POINTS TOTAL)

_____ Max of 11" x 17" (1 Pt)	_____ Title Card With drawing title, brief description, date, scale used (1 Pt)	_____ All major parts labeled (3 Pts)
_____ Accurate Scale (2 Pts)	_____ Are there 3 views (Front, Side, and Top) with major parts shown (3 Pts)	

General Neatness Score (0-5): _____

FINAL SCORE: (50 MAX)		GENERAL NOTES:	
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Judge Initials: _____

Does Display Portion Meet Minimum Requirements (3 Sections Have a Score)? Y/N	
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