

# MESA 2012 HIGH SCHOOL VEHICLE TRANSPORT COMPETITION Judges Checklist

School: \_\_\_\_\_ Team #: \_\_\_\_\_

## Inspection and Impound

- \_\_\_ Device (including power source and trigger connection in ready to launch position) fits within the 1' x 2' required space and is one connecting piece.
- \_\_\_ The power source conforms to energy regulations. (No thermal, electrical, or chemical)
- \_\_\_ Device has a single trigger mechanism.
- \_\_\_ Device is a unique creation and not a commercially made object or kit.
- \_\_\_ Device is solely powered from the energy source(s).
- \_\_\_ 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:

- The remaining part of the trigger may extend past the 1" x 2" size constraints.
- Devices must be in testing condition prior to device inspection.
- Only devices passing inspection will be allowed to participate in the performance tasks.

## Competition Results:

Trial	Time (s)	Total Mass (oz.)	Notes	Entire Weight Bonus (Y/N)
1				

**Penalty Summary: Each penalty results in a 20s delay. (Additional Penalties Mark in Notes)**

#	Description
1	
2	

#	Description
3	
4	

#	Description
5	
6	

### Notes:

- **If not all the weight is transferred within the time, the team will receive the full time score of 5 minutes (300s).**
- **If all weight is transferred in 3 minutes or under (<180s) received the lowest time score of 180s. Actual time written in notes section.**
- Teams can only use repair materials impounded with device as long as the repair materials do not change the movement/power source of the original design.
- Time is measured to tenth of seconds (0.1 s).

Judge Initials: \_\_\_\_\_ Student Initials: \_\_\_\_\_

Does Performance Portion Meet Minimum Requirements (8oz in 5min)? Y/N	
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**Display Scoring: Mark Value if all requirements met. Mark 0 if not.**

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

<b>FINAL SCORE: (50 MAX)</b>		<b>GENERAL NOTES:</b>	
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Judge Initials: \_\_\_\_\_

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