

MESA DAY CONTEST RULES 2017-2018

MESA TANK

LEVEL: Grades 6-8

TYPE OF CONTEST: Individual/Team

COMPOSITION OF TEAM: 2-3 Students per team

NUMBER OF TEAMS: Preliminary – Determined by your MESA Center

Regional – 3 teams per MESA Center

SPONSOR: Beatrice Prieto. Director, Fresno MESA Center

OVERVIEW: Have you ever wanted to pitch a MESA Competition to MESA staff/judges. Here

is your chance! We are looking for a team that has an innovative STEM Competition that can be piloted in the next MESA Day Competition: Participation logistics, limits, and competition facilities may vary by host site. Advisors and students are responsible for verifying this information

with their center director.

MATERIALS: The Host Center will provide the following:

• Overhead projector

• Table

The student presenter will provide the following:

- Demo of project competition
- Laptop if needed
- Written rules for their competition (3hard copies, one for each judge)

GENERAL RULES:

- 1. Project competition must be safe to participants, judges, and audience.
- 2. Must be a STEM related or a NAE Grand Challenge competition.
 - a. NAE Challenges can be found at http://www.engineeringchallenges.org/
- 3. Must be original work of team. Commercial models/kits may not be used as a competition.
- 4. Demo of project competition should be completely build
- 5. Must be ready to demonstrate how competition project works at pitch presentation.
- 6. Project competition demo cannot exceed 50cm x 50cm x 50cm
- 7. Project competition demo cannot exceed more than \$10.00. (Recyclable materials are highly recommended)
- 8. Total price of project competition demo must be presented at time of presentation. (please have documentation ready for possible verification)
- 9. Rules for competition must be written (Computer generated) and include: overview of competition, list of materials, general rules, and two math questions related to project and judging guideline.

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PRESENTATION GUIDELINES:

- 1. Must include introduction
- 2. State which NAE Grand challenge was applied (only if it applies)
- 3. Design of demo project competition
- 4. Cost of demo project competition
- 5. Demonstrate how your competition will be judged

JUDGING:

- 1. Judges will assemble all competing teams of students in the assigned room, read the rules, explain procedures, clarify judges' scoring criteria, and answer any related questions.
- 2. Judges will determine team order by random drawing and will post the team order prior to the start of competition.
- 3. Once a team is called the team must give a maximum of three-minute pitch presentation. A two-minute follow-up of questions will be given by judges.
- 4. Students will be given two minutes to setup before presentation
- 5. You must give each judge (Maximum of three judges) a copy of your written rules..
- 6. Only judges, appointed staff and competing teams will be allowed in the room.
- 7. Judges will provide time signals for students at these intervals: One (1) minute, Thirty (30) seconds, and Five (5) seconds.

AWARDS:

• Medals will be awarded for 1st, 2nd, and 3rd place

ATTACHMENTS/APPENDIX:

6th-8th grade Presentation Rubric

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Maximum Points is 50

MESA Tank Rubric

Student Names:_								
School:								
MESA Center: _								
Excellent = 5	ellent = 5 $Good = 4$ $Average = 3$			Fair = 2			Poor = 1	
Part I: Presenta Rate the presentati								
1. Introduction gained attention and interest				4	3	2	1	
2. STEM or NAE Grand Challenge clearly stated				4	3	2	1	
3. Design of demo project competition demonstrated				4	3	2	1	
4. Cost of demo project competition discussed				4	3	2	1	
5. Clearly explained process of how competition will be judged				4	3	2	1	
Part II: Demo C Rate the rules on ea	competition Rules ach point		Т	OTAL F	'OINTS	5		
1. List of Materials is included			5	4	3	2	1	
2. General Rules are clearly stated			5	4	3	2	1	
3. Judging guidelines are clearly stated			5	4	3	2	1	
4. Two math problems are included in the rules			5	4	3	2	1	
5. Rules are wri	tten in the correct for	rmat	5	4	3	2	1	
			Т	TOTAL	POINT	ΓS		
Deduct 10 p	points if demo and rules ar	e not clearly labeled with student	t names			alty I MESA C		
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