



Competition Grid for MESA Day 2019

Strand	Grade	Competition	Objective	Workbook Sponsor	Rule Version Date
Civil/Structural Engr	6th-8th	Stick Together	Build a bridge from craft sticks for max strength	SDSU/IV	8.1.18
Biomed Engr / Life Sci	6th-8th	Prosthetic Arm	Build a prosthetic arm to launch items for accuracy	USC/UCLA	8.1.18
Mech Engr / Physics	6th-8th	MESA Machine	Launch small kickball for distance	USC	8.1.18
Aerospace Engr / Physics	6th-8th	Wright Stuff	Build and launch a glider for distance	UC Santa Cruz	8.1.18
All STEM / Public Speaking	6th-8th	MESA Think Tank	Pitch an idea in "shark tank" style	Fresno State	8.1.18
Elec/Mech Engr/ Comp Sci	6th-8th	NEDC	Arduino research project	UC Riverside	8.1.18
Mathematics	6th-8th	Escape Room	PILOT: Solve math problems to "escape" the room	CSULA/UCSB	8.1.18
Structural Engr	6th-8th	Ultimate Disc	PILOT: Build a concrete disc for flight and durability	SDSU/IV	8.1.18

Strand	Grade	Competition	Objective	Workbook Sponsor	Rule Version Date
Civil/Structural Engr	9th-12th	Civil Structures	Build a bridge from balsa wood for max strength	SDSU/IV	8.1.18
Biomed Engr / Life Sci	9th-12th	Prosthetic Arm	Build a prosthetic arm to stack cups	USC/UCLA	8.1.18
Mech Engr / Physics	9th-12th	MESA Machine	Launch a small kickball for accuracy	USC	8.1.18
Aerospace Engr / Physics	9th-12th	Wright Turn	Build and launch a glider to make a right turn	UC Santa Cruz	8.1.18
All STEM / Public Speaking	9th-12th	MESA Think Tank	Pitch an idea in "shark tank" style	Fresno State	8.1.18
Elec/Mech Engr/ Comp Sci	9th-12th	NEDC	Arduino research project	UC Riverside	8.1.18
Mathematics	9th-12th	Escape Room	PILOT: Solve math problems to "escape" the room	CSULA/UCSB	8.1.18
Structural Engr	9th-12th	Ultimate Disc	PILOT: Build a concrete disc for flight and durability	SDSU/IV	8.1.18

NOTE: All rules have a version date. Please ensure you're working off the most recent version as indicated on the chart above. For any questions, comments, or concerns, please contact the Committee Chair, Marvin Maldonado, at mjmalodon@uci.edu.