



Competition Grid for MESA Day 2019-2020

Strand	Grade	Competition	Objective	Workbook Sponsor
Civil/Structural Engr	6th-8th	Stick Together	Build a bridge from craft sticks for max strength	SDSU/IV
Biomed Engr / Life Sci	6th-8th	Prosthetic Arm	Build a prosthetic arm to launch items for accuracy	UCLA
Mech Engr / Physics	6th-8th	MESA Machine	Launch small kickball for distance	USC
Aerospace Engr / Physics	6th-8th	Wright Stuff	Build and launch a glider for accuracy	UC Santa Cruz
All STEM / Public Speaking	6th-8th	MESA Think Tank	Pitch a new MESA competition in "shark tank" style	University of Pacific
Mathematics	6th-8th	Math Challenge	Solve math problems to achieve a unique goal	CSULA/SDSU
Computer Science	6th-8th	Scratch It Up!	PILOT: Code an interactive video game with Scratch	UC Santa Barbara
Elec/Mech Engr/ Comp Sci	6th-8th	NEDC	Arduino-based Solutions for Humans	Carlos Gonzalez
		NEDC	PILOT: Rules for new competition starting in 2021	Beatrice Prieto

Strand	Grade	Competition	Objective	Workbook Sponsor
Civil/Structural Engr	9th-12th	Civil Structures	Build a bridge from balsawood for max strength	SDSU/IV
Biomed Engr / Life Sci	9th-12th	Prosthetic Arm	Build a prosthetic arm to stack cups	UCLA
Mech Engr / Physics	9th-12th	MESA Machine	Launch a small kickball for accuracy	USC
Aerospace Engr / Physics	9th-12th	Wright Turn	Build and launch a glider to make an accurate right turn	UC Santa Cruz
All STEM / Public Speaking	9th-12th	MESA Think Tank	Pitch a new MESA competition in "shark tank" style	University of Pacific
Mathematics	9th-12th	Math Challenge	Solve math problems to achieve a unique goal	CSULA/SDSU
Computer Science	9th-12th	Coding Solutions	PILOT: Debug and code a solution using Python	UC Santa Barbara
Elec/Mech Engr/ Comp Sci	6th-8th	NEDC	Arduino-based Solutions for Humans	Carlos Gonzalez
		NEDC	PILOT: Rules for new competition starting in 2021	Beatrice Prieto

NOTE: For any inquiries, please contact the Committee Chair, Marvin Maldonado, at mjmalton@uci.edu.