STEMPORK The Egg-cellent Mars Lander Challenge Construction (Successful or Splat-tacular?)

PROGRAM DESCRIPTION

NASA's Orion and Copernicus spacecrafts are ready for their mission to Mars. All that remains is for the next generation of engineers to design a vehicle that will deliver an astronaut safely to the red planet's surface. Take up the challenge of building a lander out of everyday materials that will protect an egg from a two-story drop while also managing schedules, deadlines, budgets, team dynamics, unforeseen events, and more.

Visit STEMpunkED.com/Programs for more details

LOGISTICS, FEE & DELIVERY REQUIREMENTS

Duration: 7.5 hours or 5 Days x 1.50 hours per day Age Range: 9-10 basic, 11-Adult advanced **Participants**: 10-30 Cost: See Website Requirements: Video Projector with HDMI port and speakers; 3 large tables with chairs for assembly stations; tables and chairs for groups of 3-4; 1.0 hour setup and breakdown times; additional travel charges may apply.

CORE TOPICS & GOALS

▲ Define engineering problems, hypothesize solutions, build designs to test hypotheses, and revise and refine designs based on evidence from test results

▲ Integrate multi-disciplinary ideas and invent 'outside the box' engineering solutions

A Balance performance and cost factors by allocating a project's limited financial resources to address design requirements and performance expectations using available materials





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CORE TOPICS & GOALS

A Demonstrate a range of strategies, research techniques, and persistence when engaging with detailed procedural texts or examining complex issues

Listen to others' ideas, and engage in scientific dialogues that are based on evidence, not opinion

Collaborate effectively as group members who actively listen, respectfully pose thoughtful questions, acknowledge the ideas of others, and contribute ideas

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