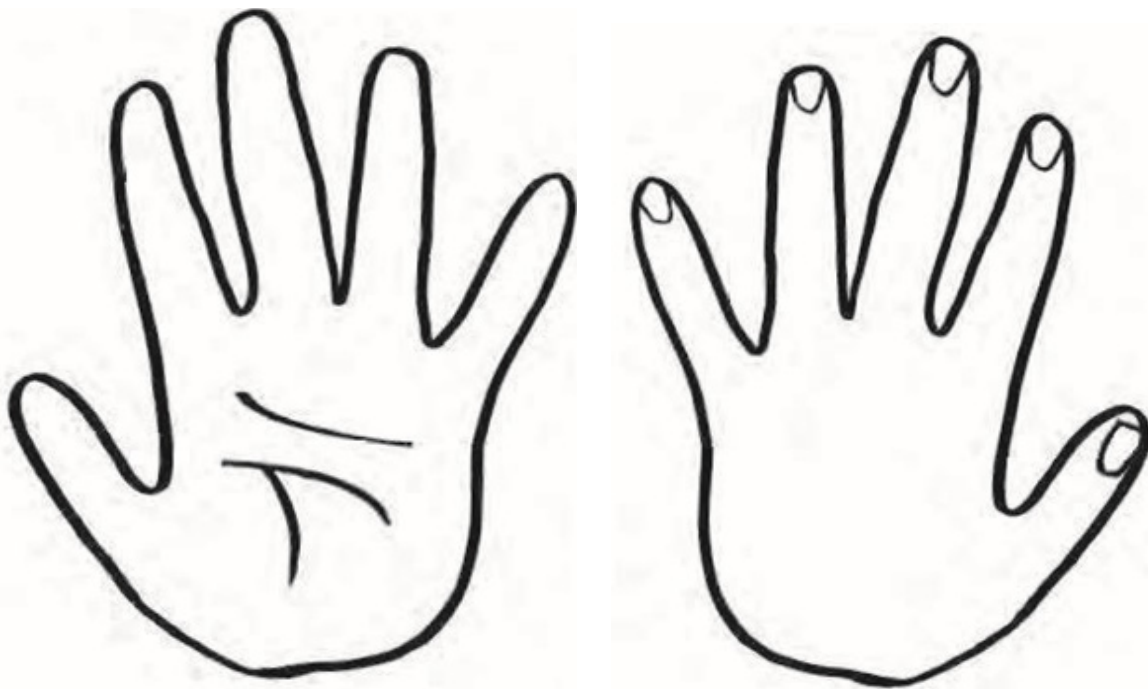


Engineering Adventure 7: The Final Test: Improving a Space Glove

How can we improve our space gloves to make them stronger or more protective while still allowing us to complete the tasks?

Improved Plan

How can you improve your model space glove to make it even better? Draw your ideas and label the changes to your design.



Will you change where you place the materials?

☐ Yes

☐ No

Will you change the materials?

☐ Yes

☐ No

Test Results: Improve**Location**

Circle your mission location.

Mars

Asteroids

Moon

Dust (Mars and Moon)

Circle the number of areas on your glove with dust.

Dust on 4 areas (not good) 2–3 areas (good) 0–1 area (great)

Impact (Mars and Asteroids)

Record number of pieces for each test. Circle the highest number.

Test 1: _____

Test 2: _____

Test 3: _____

11+ pieces (not good) 8–10 pieces (good) 5–7 pieces (great)

Cold (Asteroids and Moon)

Record temperatures. Circle the difference in temperatures.

Starting Temp: _____°C

Temp after 30 Seconds: _____°C

Difference of 7°C+ (not good) 3–6°C (good) 0–2°C (great)

Final Test

Were you able to complete the test? ☐ Yes ☐ No

Did your glove stay together after testing? ☐ Yes ☐ No