

Rover Wheel Engineering Worksheet

A: Mass of Chassis and Axels (no wheels)	B: Mass of Model Rover with Wheels	C: Mass of rover wheels (B-A=C)	% Wheel Mass (C/B x 100)

Test # 1: Traction on different terrain.

	Initial Rover Wheel (distance travelled/ time)	Rover Wheel Redesign (distance travelled/ time)
Terrain # 1 (describe)		
Terrain #2 (describe)		
Terrain #3 (describe)		

Test # 2: Stability

	Initial Rover Wheel	Rover Wheel Redesign
Highest Incline (degrees)		

Test # 3: Durability

	Initial Rover Wheel	Rover Wheel Redesign
<p>Before Test</p>		
<p>After Test</p>		

Plan your redesign

Identify any problems that your wheels encountered during the tests.

Brainstorm Solutions

Sketch and label your redesign

