

# YYYY NASA HUMAN EXPLORATION ROVER CHALLENGE RETURNING VEHICLE REPORT AND VERIFICATION – INSTRUCTIONS

National Aeronautics and  
Space Administration



## INTRODUCTION

Student teams are expected to design, construct, and test their own rovers. Vehicles not constructed by the entering team are not acceptable. A rover may be used in more than one Rover Challenge race; however, the reuse of a rover requires a minimum of 50 percent of the combined total structure and systems (content) to have been modified or replaced.

Any team entering a vehicle that has been previously registered and attempted the course is required to have a minimum of 50 percent new content to race in the current year. Rovers found to have been used in the Rover Challenge previously without substantial change will be disqualified.

## DEFINITIONS

**Reused/Returning** — a vehicle that has been registered and attempted to race in a previous year of the Great Moonbuggy Race or the Rover Challenge.

**New Content** — changes to wheels; length, width, or weight of vehicle; crew restraints; steering; braking; the addition of a working telemetry system, camera system, or storage/deployment systems.

## REQUIREMENTS

Every team entering a vehicle in the YYYY Rover Challenge must verify whether the vehicle is new or reused/returning and that it is the work of the student team registered for the race. If a team is entering a new vehicle, no report is necessary; however, the **advisor** is to email [Name] at [email address] no later than MM/DD/YYYY, to verify that the team is using a new Rover vehicle.

If a team is entering a reused vehicle in the YYYY Rover Challenge, the team must complete a report, and the **advisor** must return it to [email address] no later than MM/DD/YYYY. Teams must describe in detail a minimum of 50 percent of changes using any combination of the following:

1. New or modified wheels equal 40 percent
2. A 10 percent or greater change in length, width, or weight of the vehicle frame equals 25 percent
3. Changes to crew restraints equal 10 percent
4. Adding a working telemetry or camera system equals 20 percent
5. Changes to the storage/deployment systems equal 20 percent
6. A 20 percent decrease in overall vehicle weight equals 20 percent
7. Changes to vehicle steering equal 20 percent
8. Changes to vehicle braking equal 10 percent

This report will be used by Rover Challenge managers to ensure the team is complying with Rover Challenge rules. Rover Challenge managers will email the advisor after receiving the report to indicate the team's eligibility to compete.

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PLEASE USE THE TEMPLATE BELOW AND LIMIT YOUR RESPONSE PER CATEGORY TO THE DESIGNATED NUMBER OF CHARACTERS AND SPACES INDICATED. BY SUBMITTING THE REPORT, THE ADVISOR CONFIRMS THE VALIDITY OF THE CONTENT.

SCHOOL NAME:

ADVISOR NAME:

TEAM NUMBER (If available):

IS YOUR SCHOOL NEW TO THE ROVER CHALLENGE?

YES

NO

IF NOT, IN WHICH OF THE PAST FIVE YEARS DID YOUR SCHOOL RACE A TEAM(S) IN EITHER THE NASA GREAT MOONBUGGY RACE OR THE ROVER CHALLENGE?

2012

2013

2014

2015

2016

WHAT PARTS OF THE ROVER WERE REUSED FROM A PREVIOUS YEAR? (Maximum of 800 characters, including spaces)

OF THE FOLLOWING EIGHT POSSIBLE OPTIONS, WHICH CHANGES WERE MADE TO MEET THE 50 PERCENT MINIMUM REQUIREMENT? CHECK ALL THAT APPLY. FOR EACH APPLICABLE ITEM, PLEASE DESCRIBE IN DETAIL WHAT IMPROVEMENTS WERE MADE OR WHAT NEW PARTS OF THE ROVER WERE DESIGNED AND FABRICATED BY THE TEAM.

1. WHEELS (Maximum of 800 characters, including spaces)

2. LENGTH, WIDTH, OR WEIGHT OF THE VEHICLE FRAME (Maximum of 800 characters, including spaces)

3. CREW RESTRAINTS (Maximum of 800 characters, including spaces)

4. WORKING TELEMETRY OR CAMERA SYSTEM (Maximum of 800 characters, including spaces)

5. STORAGE/DEPLOYMENT SYSTEM (Maximum of 800 characters, including spaces)

6. WEIGHT REDUCTION (Maximum of 800 characters, including spaces)

7. VEHICLE STEERING (Maximum of 800 characters, including spaces)

8. VEHICLE BRAKING *(Maximum of 800 characters, including spaces)*