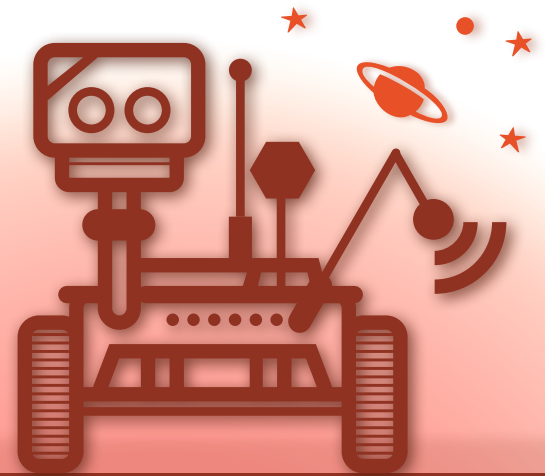


YOUR SPACE MISSION

We provide the parts & you bring the creativity!



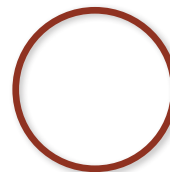
MARS ROVER

DESIGN YOUR OWN

1. PICK A BODY

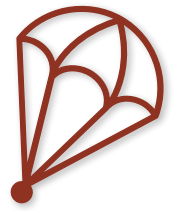
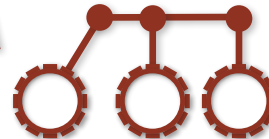
What's the base of your rover?
Draw the shape.

BOX • SPHERE • TRELLIS • ?



2. HOW DOES IT MOVE?

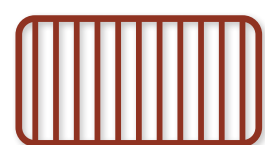
Does it roll,
step, hover,
fly, or slither?



3. WHAT ARE THE SPECIAL FEATURES?

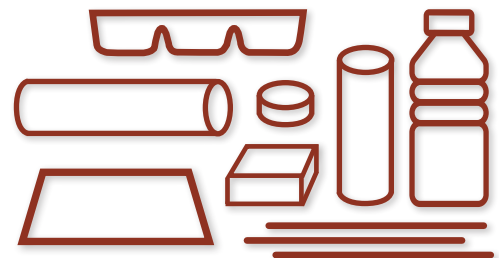
What can it do?

WEATHER STATION • CAMERA • X-RAY
RADAR • LASER MICRO-IMAGER
ANTENNA • SOLAR PANELS • DRILL
ROBOTIC ARM • HELICOPTER
MOXIE • PIXL • ?



4. PROTOTYPE

Make a model of your design
using recycled materials.



MOXIE: Mars Oxygen ISRU Experiment is an exploration technology experiment that will produce a small amount of pure oxygen from Martian atmospheric carbon dioxide (CO₂) in a process called solid oxide electrolysis.

PIXL: The Planetary Instrument for X-ray Lithochemistry, it has a tool called an X-ray spectrometer. It identifies chemical elements at a tiny scale.

NASA INSTRUMENTS: mars.nasa.gov/mars2020/spacecraft/instruments