

Calling all future space engineers and scientists!  
Your task is to design a buggy that could explore the surface of Mars.

Your vehicle needs to have at least two of the following:

- a drill to collect samples;
- ground-penetrating radar;
- a mini science lab to photograph and analyse samples;
- instruments to check for water and organic molecules;
- panoramic cameras
- a computer to communicate daily with Earth.

The buggy will need to be able travel on the surface of Mars (you might need to find out what the surface of Mars is like!), on wheels that rise and fall over bumps, guided by a hazard-avoidance system to prevent collisions with rocks.

You need to create either:

- an annotated drawing of your Mars rover vehicle.
- a static model of a Mars exploration vehicle
- a working model of a Mars exploration vehicle.



Please return your work to your teacher on Monday 29<sup>th</sup> April.