

Design a Mars Buggy

Use this template to design your own Mars buggy.

You should think about these facts:

Mars is a very cold planet.	Mars' surface is very dusty.
Mars has day and night so sometimes, it is dark.	The ground is bumpy and rocky with large hills and valleys.

1. Write a list of things that your Mars buggy needs to be able to do.

2. For each item on your list, come up with a design feature that your buggy will need to achieve this.

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Design a Mars Buggy

On this page, draw a detailed diagram of your buggy.

Label each of your design features and anything extra that you think your buggy needs.



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You should think about these facts:

The temperature on Mars can be as low as -140°C .	Mars experiences day and night similarly to the Earth.	Gravity on Mars is only 38% as strong as on Earth.
Mars' surface is bumpy and rocky with large hills and valleys.	The surface of Mars gets plenty of light from the Sun but there is little protection from its UV rays.	There are large dust storms on Mars.

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First, find out about these aspects of the planet:

Temperature _____ _____ _____	Sunlight _____ _____ _____	Gravity _____ _____ _____
Landscape and Surface _____ _____ _____	The Weather _____ _____ _____	The Atmosphere _____ _____ _____

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2. For each item on your list, come up with a design feature that your buggy will need to achieve this.

_____ _____	_____ _____
_____ _____	_____ _____
_____ _____	_____ _____
_____ _____	_____ _____
_____ _____	_____ _____

Design a Mars Buggy

On this page, draw a detailed diagram of your buggy. Label each of your design features and anything extra that you think your buggy needs. Explain each feature carefully.



Choose one feature to draw in more detail in the small box.
Label it with materials and explain its special features.