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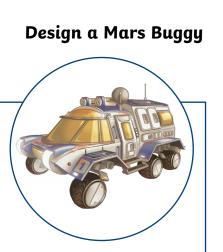
On this page, draw a detailed diagram of your buggy.

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

Design a Mars Buggy

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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.

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

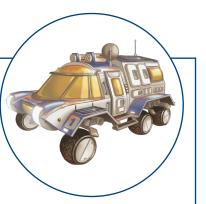**2.** For each item on your list, come up with a design feature that your buggy will need to achieve this.

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First, find out about these aspects of the planet:

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

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.

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

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.