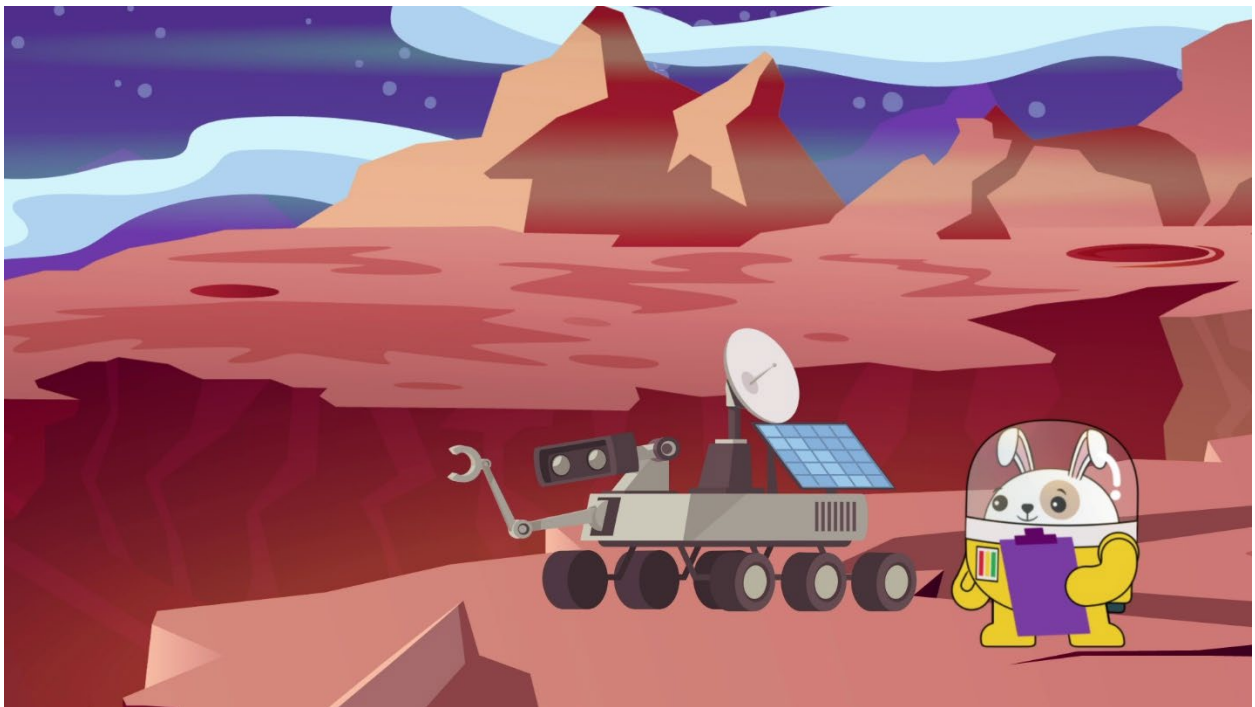


Ted asks: What is it like on Mars?

Key Stage 1

Topics covered: Wants and needs, what is needed for life, conditions on Mars

Before you get started with this activity, you can watch our video 'Ted asks: What is it like on Mars?': <https://www.rmg.co.uk/schools-communities/teacher-resources/ted-asks-what-it-on-mars>



Teacher notes: These activities can be done in sequence or individually. There are teacher notes for each activity below. Each activity starts with a 'rover report' from a fictional Martian rover which you can read or show to your class. All photos of Mars used in these activities are real photos sent back by rovers exploring the planet.

Activity 1 - Designing a mission patch – Teacher note

Astronauts have patches designed for their specific mission. They wear these on their spacesuits. They often include the name of the mission, the people that went with them, pictures of the spacecraft used or the location they travelled to. There are some examples you can show your class, available on this webpage:

<https://www.rmg.co.uk/schools-communities/teacher-resources/ted-asks-what-it-on-mars-0>

Activity 2 - Packing for Mars - Teacher note

This could start with a conversation about the conditions on Mars, the requirements for life for humans, and the difference between needs and wants. There aren't answers provided, and there might not be correct answers for some of these! You could suggest students circle needs and wants in different colours.

One extension could be sharing with others an item you've chosen and why.

Another extension could be introducing the idea that you can only take limited possessions with you to Mars. Could students narrow down their answers to just 5 items?

Activity 3 - Sorting things out – Teacher note

There are similarities and differences between Earth and Mars. Both planets have rocky surfaces, atmospheres, hills, volcanoes, craters, and signs of water in the past. Only Earth has plenty of liquid water now, and evidence of life! These photos start easier and get trickier and trickier. They can be printed as a worksheet, or done together as a class using the powerpoint available on this webpage:

<https://www.rmg.co.uk/schools-communities/teacher-resources/ted-asks-what-it-on-mars-0>

ROVER REPORT 1

It's day 1 of my journey across Mars. Today I reached the planet after a 203-day journey in the spacecraft. The parachute successfully slowed my landing and now my wheels are on the surface. Science experiments start soon! Before I came here, I designed a mission patch to represent my adventure. If you were going to come to Mars, what would your mission patch look like?

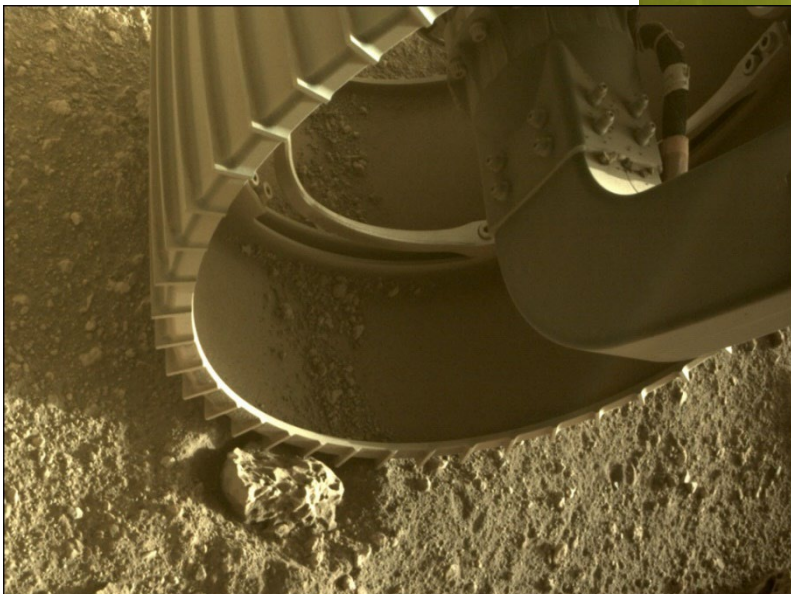
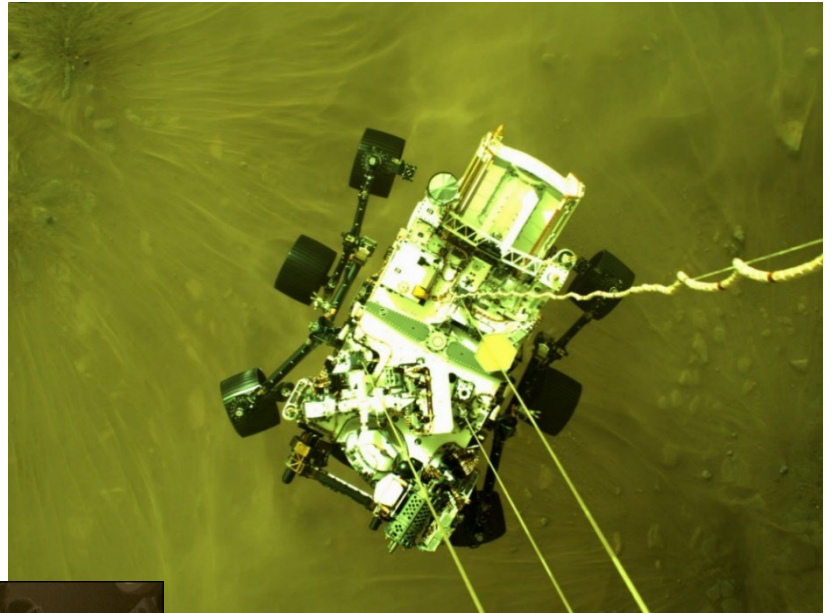


Image Credit: NASA

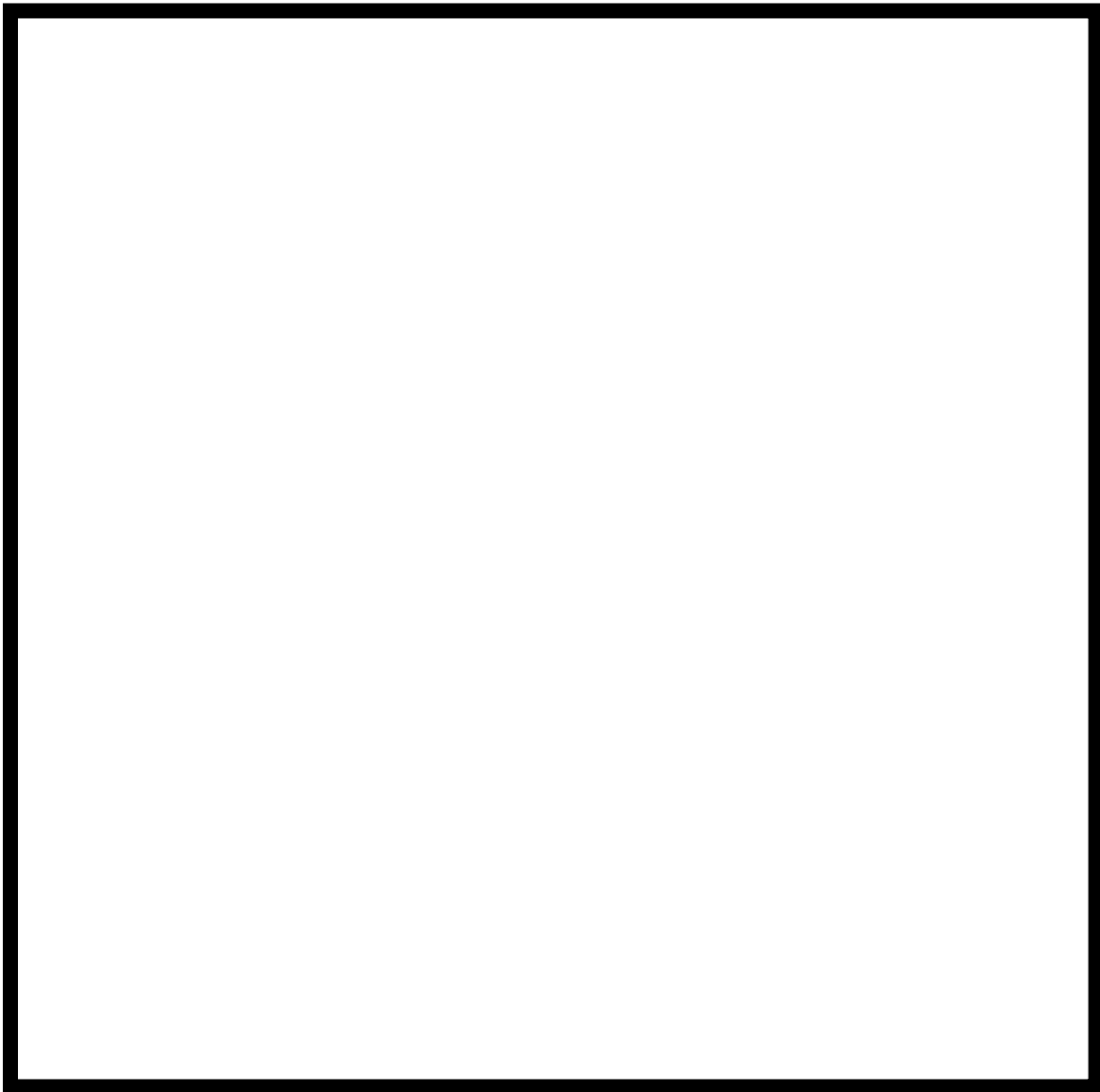
Activity 1 – Worksheet

Design your mission badge for your mission to Mars!

Where on Mars are you going?

Who are you going with?

How are you getting there?



ROVER REPORT 2

It's day 89 of my journey across Mars. Today I visited this interesting rock, studied it and drilled a hole into it. The temperature is -60°C (colder than the Arctic on Earth!) and the dust is everywhere. As a robot I don't need food and get my energy from solar panels. But if you wanted to come to Mars, what would you bring with you?

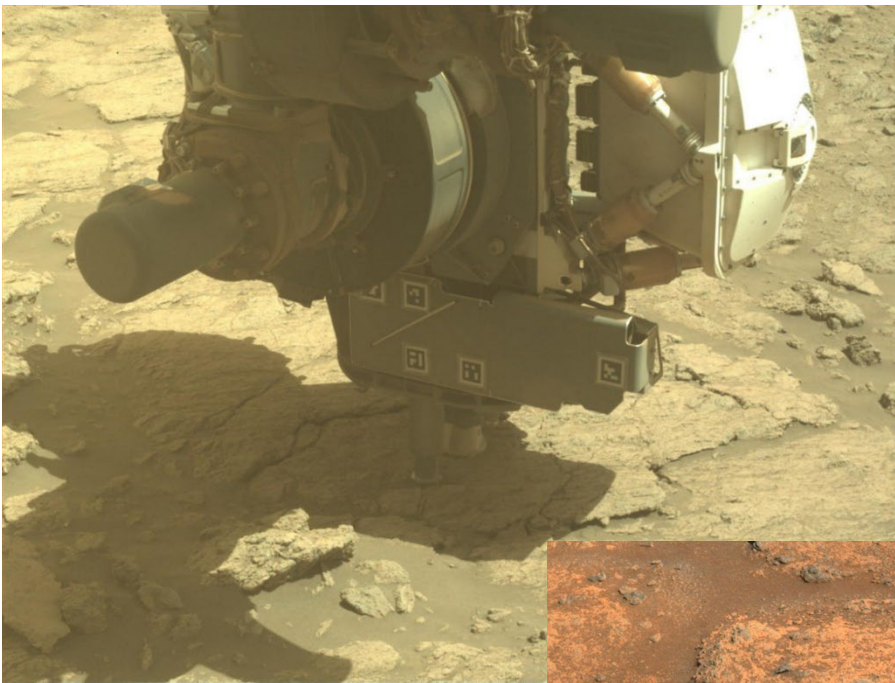
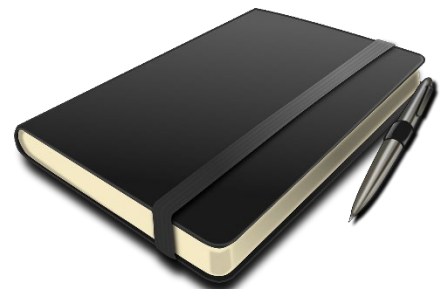
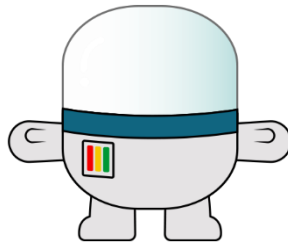
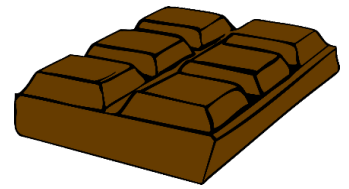
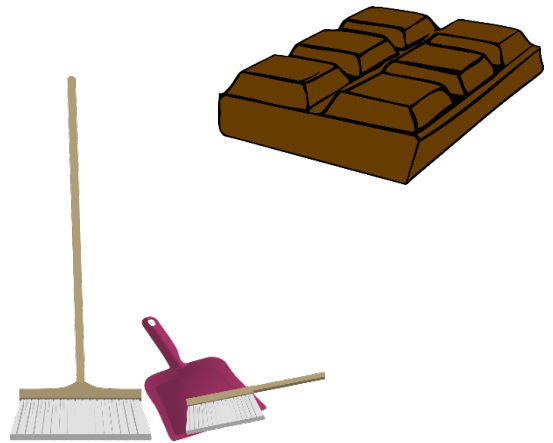
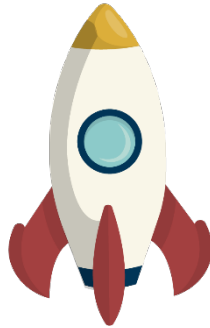


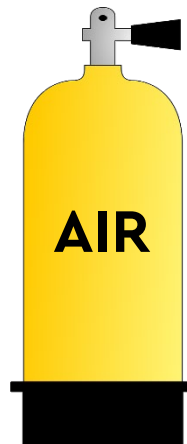
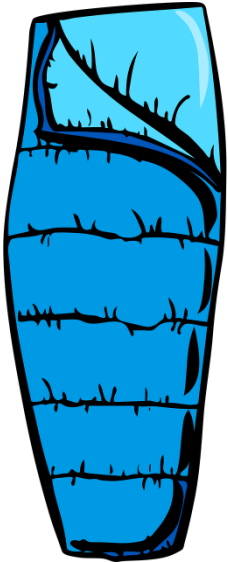
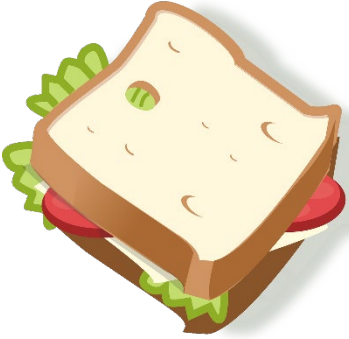
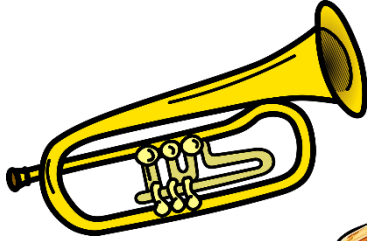
Image Credit: NASA

Activity 2 – Worksheet

Circle the things you would **NEED** on Mars!

Circle the things you would **WANT** on Mars!





ROVER REPORT 3

It's day 199 of my journey across Mars. Today I visited a place that used to be covered in water billions of years ago. Today it is sunny, and the temperature is 14°C . I've sent many photos back, some of them look like photos from Earth. Do you think you could tell Earth and Mars photos apart?



Image Credit: NASA

Activity 3 – Worksheet

Some of these photos are from Earth and some are from Mars. Can you sort them out?

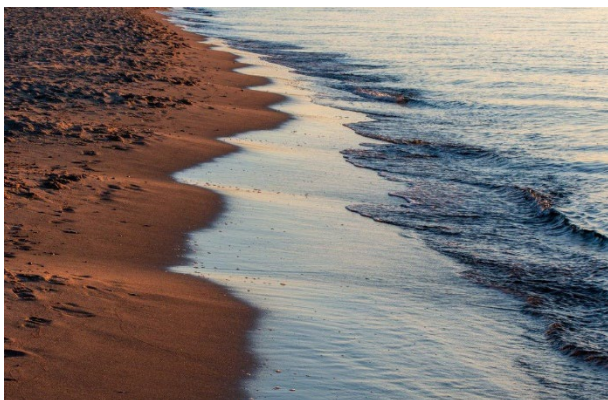
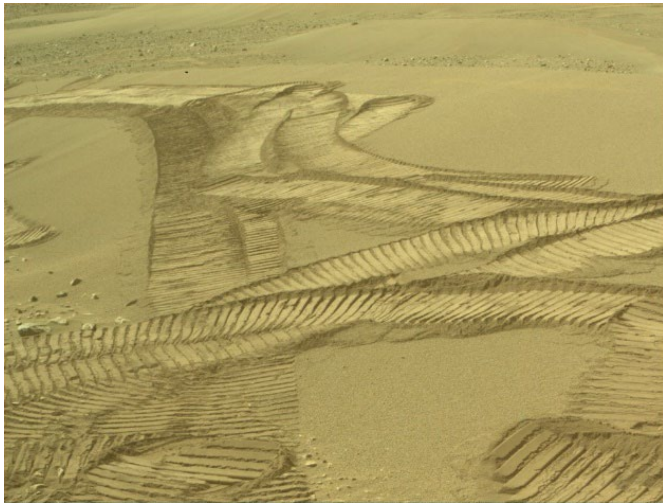


Image Credit: NASA

Activity 3 – Worksheet - ANSWERS

Some of these photos are from Earth and some are from Mars. Can you sort them out?

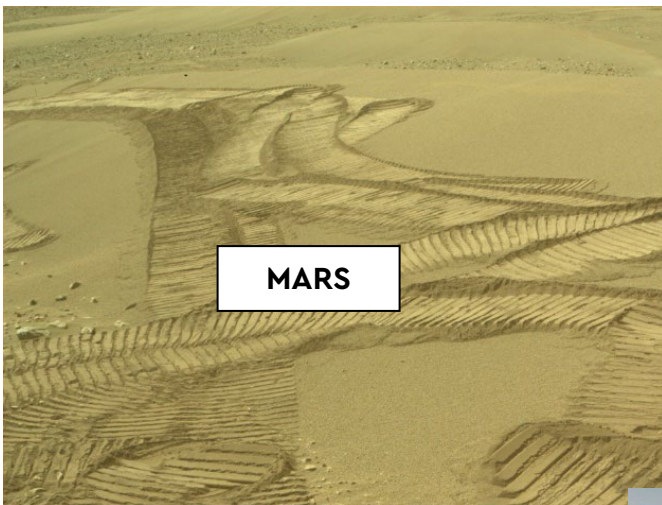
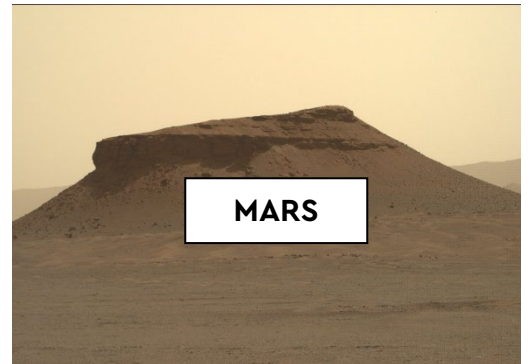
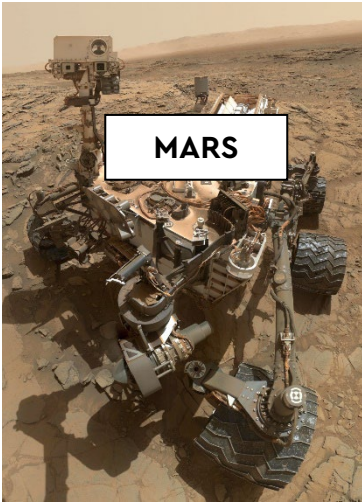


Image Credit: NASA