

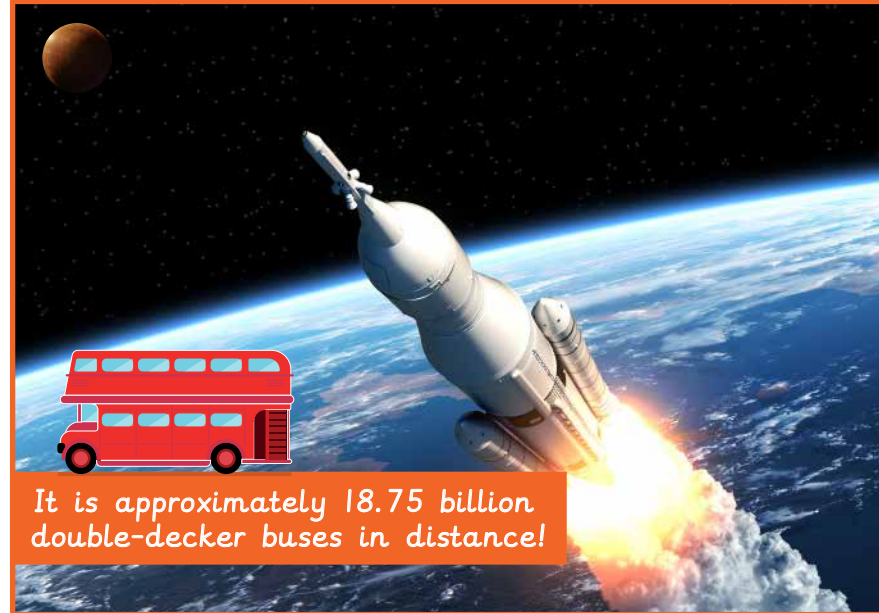
# Computing - Mars Rover 1

binary	A system computers use to store information using only 0 and 1.
Boolean	A system with two possible values: true and false.
data	Information used for a particular purpose or investigation.
data size	How much space information takes up when it is stored on a computer.
distance	The amount of space between two places or objects.
input	Information sent to a computer by an input device, such as a keyboard or mouse.
Mars Rover	A robotic vehicle that explores Mars and sends information back to Earth.
output	Information sent from a computer to an output device, such as a screen, printer or speakers.
planet	A large natural object that orbits around a star.
processing	When a computer works on information, for example by sorting data or doing calculations.
scientist	A person who studies science, such as physics, biology or chemistry.
signal	A message sent from one place to another, often using waves or electricity.
store	To keep information in a computer's memory so it can be used later.
transmit	To send information from one place to another.



## Key facts

The Mars Rover travelled 225,000,000 km (approx) to get to Mars and it took almost seven months.



It is approximately 18.75 billion double-decker buses in distance!

## Binary

When a robot thinks independently, it needs to be able to calculate a range of data. All decisions carried out by a robot, or any computer, are done in binary - including the Mars Rover.

Binary value	Decimal value
0 0 0 0	0 zero
0 0 0 1	1 one
0 0 1 0	2 two
0 0 1 1	3 three
0 1 0 0	4 four
0 1 0 1	5 five
0 1 1 0	6 six
0 1 1 1	7 seven
1 0 0 0	8 eight
1 0 0 1	9 nine
1 0 1 0	10 ten

