

# OURSPACE

DIGITAL ADVENTURES IN SPACE

## Microgravity

The gravitational field of the Earth extends far above the surface. In fact, at 400km it is still nearly 90% of its value on the surface. The acceleration due to gravity on the surface of the Earth is 9.8 metres per second squared and is also known as 1g. Microgravity occurs when an object is considered to be in free fall. Gravity is used to keep the ISS in orbit around the Earth. We can consider the ISS to be in constant free fall around the Earth.

You may not get the chance to go to the ISS, but you can experience microgravity on Earth. For example, you can take a parabolic flight, go on a roller coaster or jump around on the trampoline. All of these give you the experience of being in free fall.