

- Space is completely silent. There is no atmosphere in space, which means sound has no way to travel to be heard. Astronauts use radios to communication because radio waves can still be sent and received.
- The hottest planet in our solar system is 450 degrees Celsius and it is Venus.
- There may be life on Mars, in 1986, NASA found what they thought may be the fossils of microscopic living things in a rock recovered from Mars.
- The sheer size of space makes it impossible to know many stars there are in space. In the Milky way, scientist have estimated that there are between 200-400 billion stars and there are estimated to be billions of galaxies.
- The footprints on the moon will be there for 100 million years because the moon has no atmosphere and wind/water to wash them away.
- If two pieces of the same type of metal touch in space they will permanently bond.
- Five space shuttles have been launched in space by NASA. Their names are: Endeavour, Columbia, Challenger, Discovery and Atlantis.
- Space shuttles have four major components: Two solid rocket boosters, The external tank, Three main engines and the obiter add-ons.

## Sticky Knowledge

## Crucial Connections

<https://www.nasa.gov/kidsclub/index.html>

<http://gws.ala.org/category/sciences/astronomy-space>

<https://www.spacekids.co.uk/learn/>

<http://www.sciencekids.co.nz/space.html>

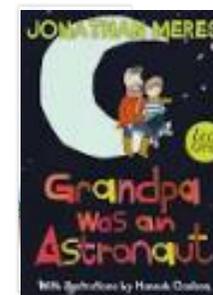
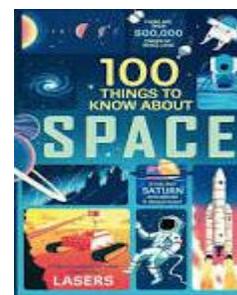
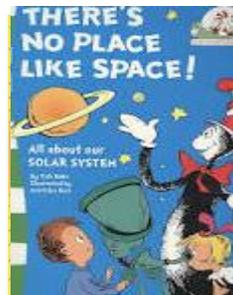
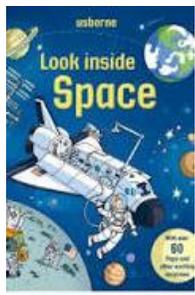
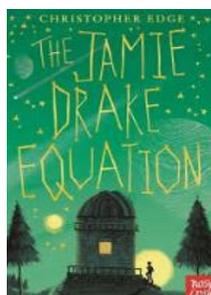
<https://www.natgeokids.com/uk/>

<https://www.ducksters.com/science/astronomy.php>

## Always Abilities

Collaborative, Creative, Critical & Caring.

## Reading Recommendations



## Possibilities:

Aerospace or Aeronautical Engineer, Avionics Engineer, Computer Engineer, Materials Engineer, Mechanical Engineer, Robotics Engineer, Biologist, Geologist, Doctor, Meteorologist, Physicist, electrician, Laser Technician, Satellite Technologist.

## Vital Vocabulary

<b>Unmanned</b>	Not having a crew
<b>Trajectory</b>	The path of an object through space
<b>Orbit</b>	The regularly repeated oval course of celestial object around a star or planet
<b>Satellite</b>	Something that orbits around a larger object
<b>Atmosphere</b>	The layer of gases around the Earth
<b>Propulsion</b>	The force that moves something forward
<b>Aerodynamic</b>	A shape which reduces the drag from air moving past it
<b>Asteroid</b>	A small rocky body orbiting the sun
<b>Axis</b>	An imaginary line about which a body rotates
<b>Celestial</b>	Positioned in or relating to the sky, or outer space as observed
<b>Planet</b>	A celestial body moving in orbit around a star
<b>Solar system</b>	The collection of eight planets and their moons in orbit around the sun
<b>Star</b>	A fixed luminous point in the night sky, which is a large, remote body like the sun