



TO THE MOON!

We are going to stay, by 2024

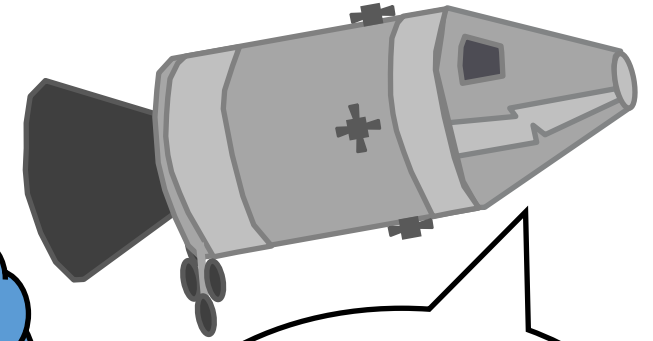
Getting ready to start Secondary School is a lot like an astronaut preparing for a space mission. It's wonderful, exciting, and scary all at the same time! It's perfectly natural for astronauts (or Y6 students) to feel a little anxious about their mission. We are all in this together and will help each other have **courage** and **optimism**. We will have **regard** for each other and **endeavour** to help each other along the way.

Apollo 11 was the first space mission to land people on the Moon. Neil Armstrong and Buzz Aldrin became the first people to walk on the Moon in July 1969. NASA have said they are returning to the Moon by 2024. This time they will be working with engineers, scientists, doctors, computer scientists and astronauts from many different countries including the UK.



Astronauts like Neil Armstrong, Buzz Aldrin, Helen Sharman and Tim Peake had to train and prepare for their adventures in space.

The To The Moon! activities will help you prepare for your adventure at Allestree Woodlands School. Supported by Woodlands staff and your parents/carers you will be able to reach for the stars!

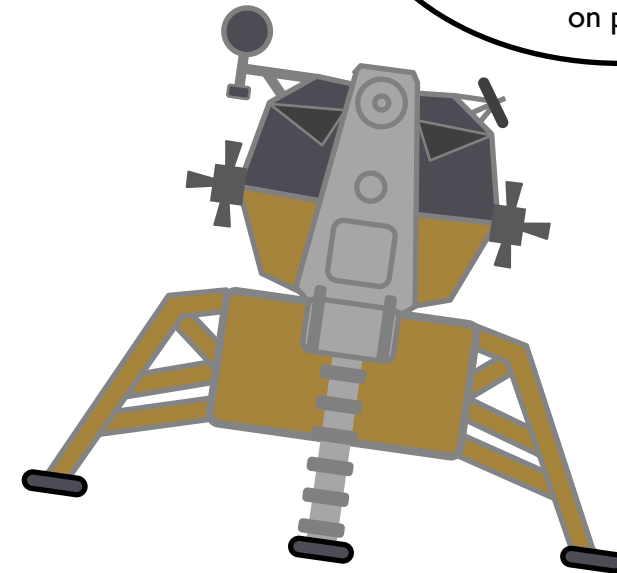


Lost in Space?

Don't understand some of the words?

Don't Panic

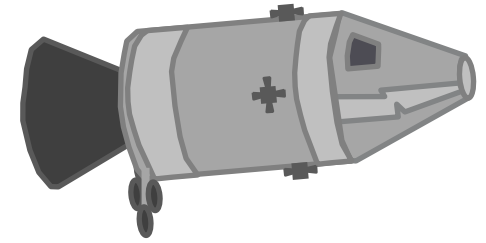
Look up the meaning of words using the **Mission Words** on page 3.





TO THE MOON!

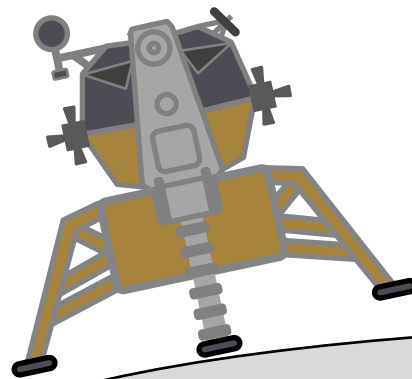
Your Mission, Your Team



First follow the links in Resource 1-3 on page 4: Watch the NASA videos and talk about them with your parents/carers.

Your Mission

1. Design and build one important element of the mission to the Moon e.g. a space helmet, a rocket, a super healthy space meal or a daily exercise routine. See **Resource 5** on page 4 for more ideas.
2. Take photos of your project and share them with us using Edmodo (see separate instructions)
3. Working together with your parents/carers (CapCom) to boost your wellbeing. See **Resource 4** on page 4.



Who is in Your Mission Team?

Trainee Astronaut - That's You! Your job is to complete your mission challenges with the help of **Mission Control** and **CapCom**.

Capcom - Your parents/carers are the Capsule Communicators or CapCom. In a real space mission the CapCom helps the astronaut complete tasks set by mission control. They have an essential role in helping the astronauts keep safe and well. See Resource 4 on the Resources page.

Mission Control - Staff at Allestree Woodlands School will be your Mission Control. They will give you challenges and also provide help and support along the way. This includes celebrating your successes.

Write down the names of your mission team:

Trainee Astronaut: _____

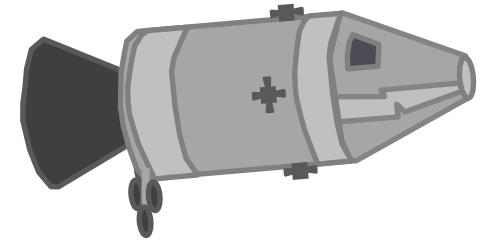
CapCom: _____

Mission Control: _____



TO THE MOON!

Mission Words

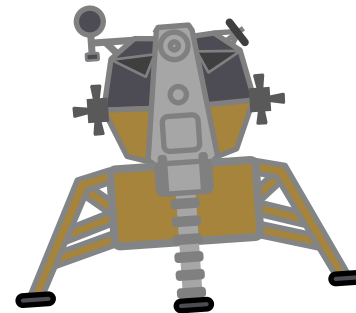


HELP! Lost In Space? Don't Panic

Look up the meaning of words on this **Mission Words** page. Remember you can also ask your CapCom and look up words online.

Astronaut	Astronauts travel to space in rockets to work on projects like the International Space Station.
Engineer	Engineers design and build things to help people solve problems. In a space mission engineers design the rockets, spacecraft, life-support and equipment.
Scientist	Scientists use their understanding of physics, biology and chemistry to explore and discover new things about the world and space.
Doctor	In a space mission doctors help astronauts stay healthy by giving advice, working out what is wrong if they feel unwell and helping them get better.

Computer Scientist	Space missions use many different sorts of technology and computers. The computer scientists will write the computer programmes that make the technology work. For example, helping the spacecraft land safely.
Space	If you travel outside the Earth's atmosphere you are in space. The word space is used to describe everything between the Earth and other objects in space like the Moon, the Sun, other planets and stars.
CapCom	The CapCom speaks to the astronauts throughout the mission. CapCom helps the astronauts complete tasks and pass questions to Mission Control. They help the astronauts stay healthy during their mission.





TO THE MOON!

Resources for Your Mission



On this page you will find resources to help you with your mission. Use these resources to help you decide what you will design and build.

SAFETY FIRST! Always check with your parents/carers before starting an activity.

1. NASA: We Are Going	Astronauts are going to the Moon, to stay, by 2024 https://www.youtube.com/watch?v=vl6jn-DdafM
2. NASA: We Go Together	People from lots of different countries will work together to get to the Moon. https://www.youtube.com/watch?v=G9KQfnqukno
3. How We Are Going	Find out how the Artemis Mission will take astronauts to the Moon and back. https://www.youtube.com/watch?v=_T8cn2jI3-4
4. Well-being Activities	Your CapCom can use these resources to help you stay healthy and happy during your project. https://www.partnershipforchildren.org.uk/what-we-do/childrens-wellbeing-activities-for-teaching-staff-and-families.html Mission X Train Like an Astronaut https://www.esa.int/Education/Expedition_Home/

5. How to make... These resources are only offered to help. They are not meant to limit your creativity. Feel free to research and build your own ideas and designs.	... a papier mache space helmet. Easy: https://www.youtube.com/watch?v=cfV-YHtgiPg Medium and Difficult: https://www.youtube.com/watch?v=ubaXM1SsLyQ ... a space rocket. Easy: https://buggyandbuddy.com/straw-rockets-with-free-rocket-template/ https://www.youtube.com/watch?v=0hThMoHB88w Medium: https://www.rockets-and-robots.com/projects.html Difficult: Rocket Science 2-stage rocket: https://www.sciencebuddies.org/teacher-resources/lesson-plans/two-stage-balloon-rocket Baking-powder Rocket: Read and follow the safety advice with this one! https://www.sciencebuddies.org/stem-activities/rockets-baking-soda#summary ... a healthy astronaut meal https://www.st-stephens-school.org.uk/docs/Homework_Sheets/The_Great_British_Space_Dinner_Competition.pdf Note: The competition has already finished but you can still design and make an amazing space meal!
6. Optional Extras	Here are some more optional resources for inspiration: https://www.youtube.com/user/NSpaceCentre We Are Stars Tour of the ISS with Astronaut Tim Peake Space Diary Activities https://principiaspacediary.org/activities/