

Exploring Space

S3 Physics



Lesson Title: The Need for Space Exploration



Learning Intention:

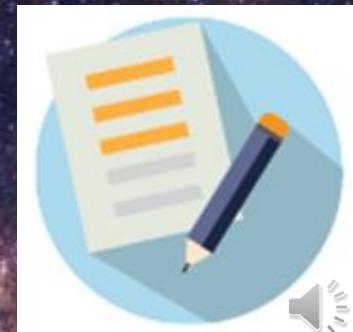
Today we are learning about why humans explore space.

Success Criteria:

- ✓ I can describe some of the key milestones in the space race.
- ✓ I can state the definition of common space terms.

Employability skill(s):

Researching



Task 1: How many astronauts?

Twig

Now pause the video and carry out some research to answer the following questions:

1. How many people have been to Space?
2. How many of these people are women?
3. How many people are currently in Space?
4. Where are they?



The Space Race



Sputnik 1 - Soviet satellite

- First artificial satellite
- Launch: 1957



Laika - Soviet space dog

- First animal to orbit Earth
- Launch: 1957



The Space Race



Yuri Gagarin - Soviet cosmonaut

- First human in outer space
- Launch: 1961

Apollo 11 - US spaceflight

- First person to walk on the moon
- Launch: 1969



Current Space Exploration



The International Space Station (ISS)

- First component launched in 1998.
- Orbits Earth approximately every 90 minutes

Humans landing on Mars?

- NASA have made a goal to put humans on Mars in 2030.
- The first people who will land on Mars are most likely in school now!



Research Activity: Space Terms

Research the following space terms, and write a concise definition in your jotter.

Space Term	Definition
Moon	
Planet	
Exoplanet	
Star	
Sun	
Solar System	
Galaxy	
Universe	



Lesson Title: The Need for Space Exploration



Learning Intention:

Today we are learning about why humans explore space.

Success Criteria:

- ✓ I can describe some of the key milestones in the space race.
- ✓ I can state the definition of common space terms.

Employability skill(s):

Researching

