

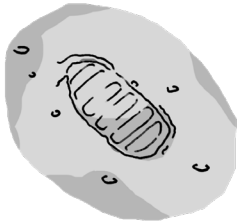
Objectives	Space Race	Extra Information
Lesson 2 – Whole Class Version.	<p>GUIDANCE – Remind the class of the previous exercise and that it was half of the Space Race timeline.</p>	<p>Materials Required:</p> <ul style="list-style-type: none"> ✓ Timeline from previous lesson ✓ Paper ✓ Pens ✓ Pencils
<p>L.O:</p> <p>To Learn About the History of Space Travel Up Until the Modern Day.</p>	<p>STARTING ACTIVITY – (10 minutes)</p> <p>Explain to the class that we will be continuing the timeline from the previous lesson. Begin by introducing Elon Musk and see if the class knows what company he runs and what that company does? Recap on the previous lesson to see if the class can remember who was the first man to walk on the moon, and who invented the aeroplane. If that was too easy see if they can remember the name of the first chimpanzee and the first dog in space.</p> <p>MAIN TEACHING – (20 minutes)</p> <p>In this second Space Race lesson we will be travelling from just after man first landed on the moon all the way to present day (2020) as man takes yet another giant leap towards improved space travel and one small step towards walking on Mars.</p> <p>The Space Race between Germany, the USSR and the USA slowed down quite considerably following our trip to the moon, with Germany falling off the radar and the USA's NASA taking the reins of space exploration for many years. See if the class know where NASA is based and if they can remember what their logo looks like. See if they can draw it.</p> <p>In 2002, tech entrepreneur Elon Musk, co-founder of PayPal and Tesla, founded Space X in a bid to revolutionise space technology, and eventually launched its first crewed mission to the International Space Station.</p> <p>Explain that we will be travelling through time from Neil Armstrong all the way to Elon Musk's SpaceX/NASA mission.</p> <p>MAIN TASK – (25 minutes)</p> <p>Now have the previous time line visible with the last lesson's events still attached throughout history. We will now be working from 1969 to 2020, present day. And the class will have to place the images where they think they belong on the timeline.</p> <p>You can either ask them to tell you where to stick the images or split them into teams and give them a few images each. To make things a bit easier make sure the class is aware that this lesson covers between 1969 - 2020.</p>	<p>Key Words:</p> <p>Elon Musk Mars NASA Entrepreneur PayPal Tesla Space X International Space Station Voyager Jupiter Uranus Neptune GPS Ronald Regan Rover Sojourner Robot NEAR Eros Spirit Opportunity Curiosity Perseverance Red Planet</p>

Objectives	Space Race	Extra Information
	<p>1972 - Last Man on the Moon - Gene Cernan became the eleventh and final person to walk on the Moon from the Apollo 17 (America).</p> <p>1977 - Voyager 2 - Launched days before Voyager 1 to visit Jupiter, Saturn, Uranus and Neptune. It is still on its mission in the outer reaches of the Solar System to this day more, than 40 years later.</p> <p>1983 - Public GPS - The Global Positioning System was a US Military tool until it was released to the general public by President Ronald Regan. This technology is still used today in our smartphones and tablets.</p> <p>1986 - Mere Space Station - This first modular space station was assembled in space and had a greater mass than any spacecraft before it.</p> <p>1997 - Mars Rover Sojourner - The cute little Mars Rover, Sojourner was the first wheeled robot to explore the dusty red planet... very, very slowly, at a speed of 0.02 mph (miles per hour).</p> <p>1998 - International Space Station - The ISS was a huge collaborative project between five different space agencies, NASA (USA), Rocosmos (Russia), JAXA (Japan), ESA (Europe) and CSA (Canada) and took over from the Mere.</p> <p>2000/1 - Landing on an Asteroid - NASA's NEAR spacecraft took on an large asteroid named Eros by orbiting it for a year, taking photos and measurements before finally landing.</p> <p>2012 - Man jumps from space - An Austrian skydiver and daredevil became the first person to perform a supersonic freefall from the 128,000 mile high stratosphere as part of the Red Bull Stratos project.</p> <p>2018 - Car in Space - Before launching people into space, Elon Musk shot one of his Tesla Roadsters into the skies as a test payload for a future launch. It went on to become an artificial satellite of the sun.</p> <p>2020 - Space X Launch - In May of 2020 NASA astronauts Robert L. Behnken and Douglas G. Hurley were launched into space in a rocket built by Elon Musk, marking a new era of space travel and potentially takes a giant leap towards commercial flights.</p>	<p>Success Criteria:</p> <ul style="list-style-type: none"> ✓ I know the date that the last human walked on the moon. ✓ I know the date that the last human walked on the moon and when the Space X Launch was. ✓ I know the date that the last human walked on the moon, when the Space X launch was and can put together a time line for all historical events in between.

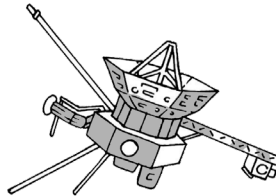
Objectives	Space Race	Extra Information
	<p>PLENARY – (5 minutes) For those who finish first see if they can put all four of NASA's Mars Rovers in order of when they visited the red planet.</p> <ul style="list-style-type: none">✓ 1997 - Sojourner✓ 2004 - Spirit and Opportunity✓ 2012 - Curiosity✓ 2020 - Perseverance	

Space Race - Reference Sheet

- 1972 -
Last Man on the Moon



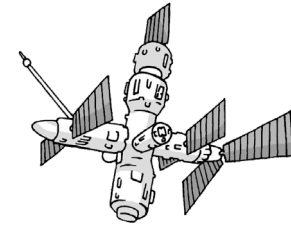
- 1977 -
Voyager 2



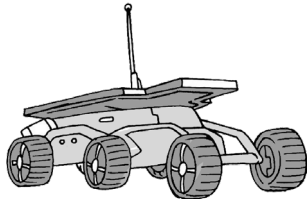
- 1983 -
Public GPS



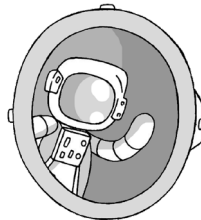
- 1986 -
Mere Space Station



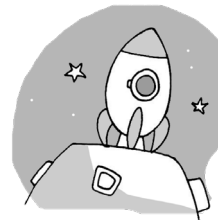
- 1997 -
Mars Rover Sojourner



- 1998 -
International Space Station



- 2000/1 -
Landing on an Asteroid



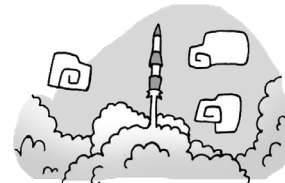
- 2012 -
Man jumps from space



- 2018 -
Car in Space

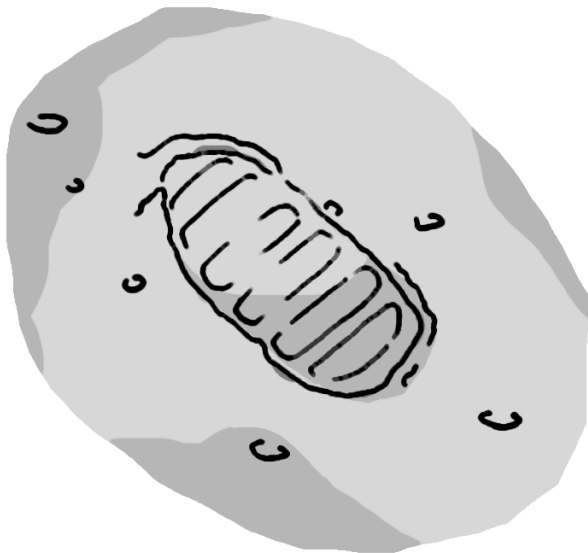


- 2020 -
Space X Launch

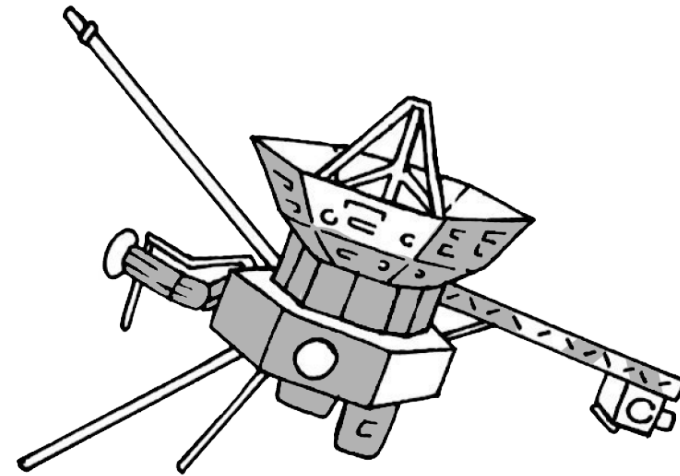


Space Race - Reference Sheet

Last Man on the Moon

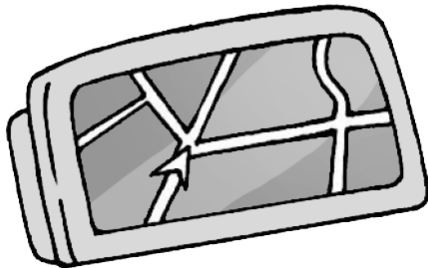


Voyager 2

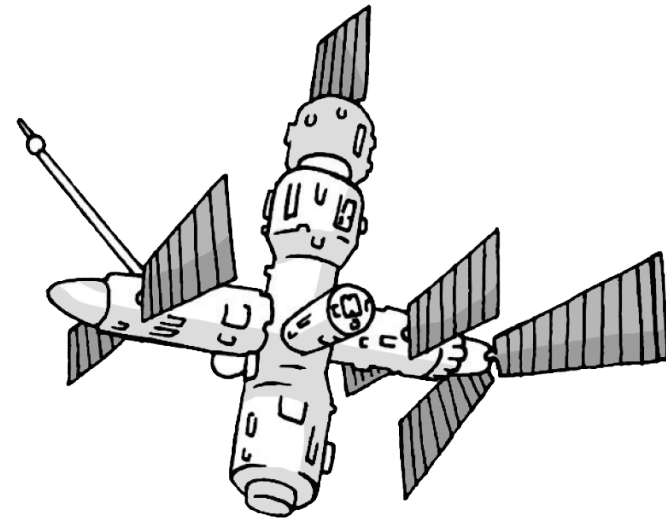


Space Race - Reference Sheet

Public GPS

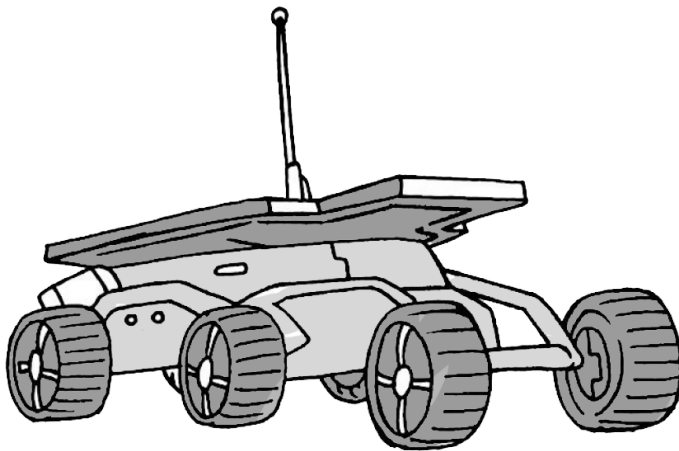


Mere Space Station

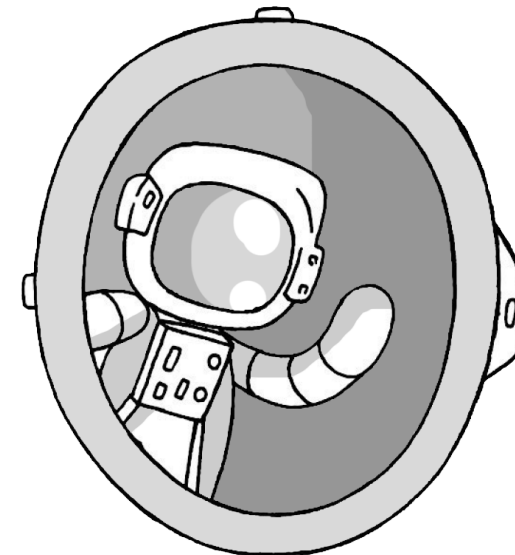


Space Race - Reference Sheet

Mars Rover Sojourner

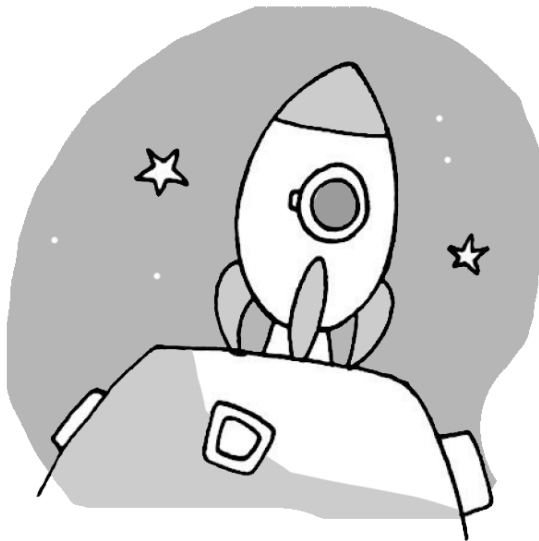


International Space Station



Space Race - Reference Sheet

Landing on an Asteroid



Man jumps from space

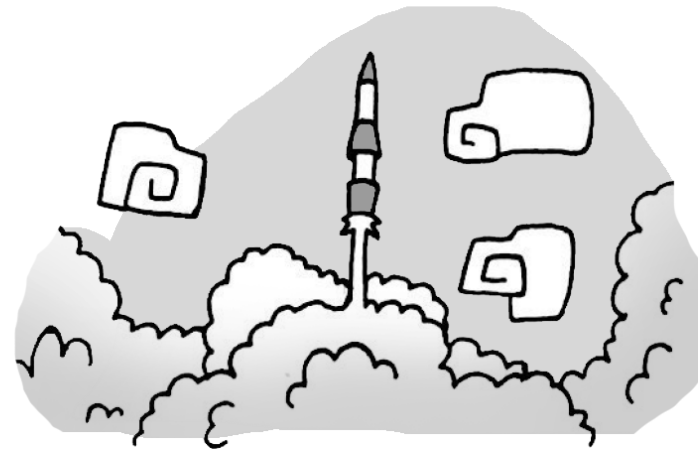


Space Race - Reference Sheet

Car in Space



Space X Launch



Reflection	Child's Progress