





# Year 5 – Spring 2 – Space Exploration

Key Words	Definitions
<b>astronaut</b>	A person who has been trained for travelling in space.
<b>European Space Agency</b>	The European Space Agency (ESA) is a 22-member intergovernmental body devoted to space exploration.
<b>exploration</b>	The act of traveling to a place or searching a place in order to learn about it.
<b>ISS</b>	The International Space Station (ISS) is the largest space station to have ever been built. The station resides in low Earth orbit and has a primary purpose of performing microgravity and space environment experiments.
<b>mission</b>	An important job, especially a military one, that someone is sent somewhere to do.
<b>NASA</b>	The U.S. space agency that explores the Earth, the Moon, the Solar System and beyond.
<b>satellite</b>	A device sent up into space to travel around the earth, used for collecting information or communicating.
<b>space</b>	The empty area outside Earth's atmosphere, where the planets and the stars are.
<b>'Space Race'</b>	The early era of space exploration was driven by a "Space Race" between the Soviet Union and the United States.
<b>telescope</b>	A cylinder-shaped device for making objects that are far away look closer and larger.

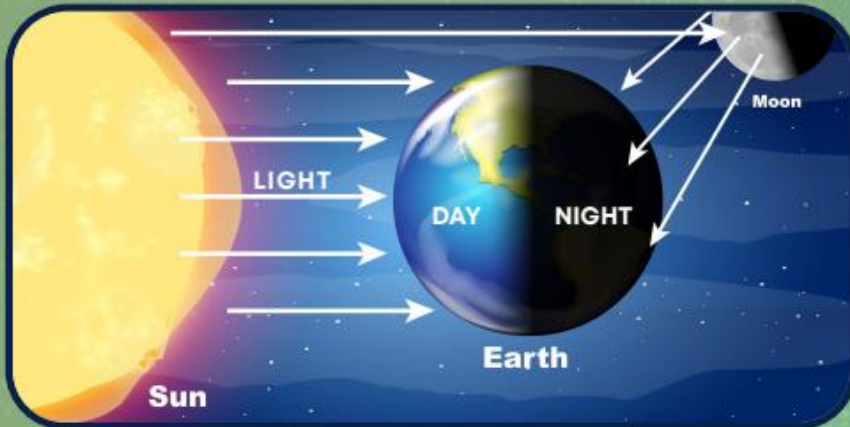
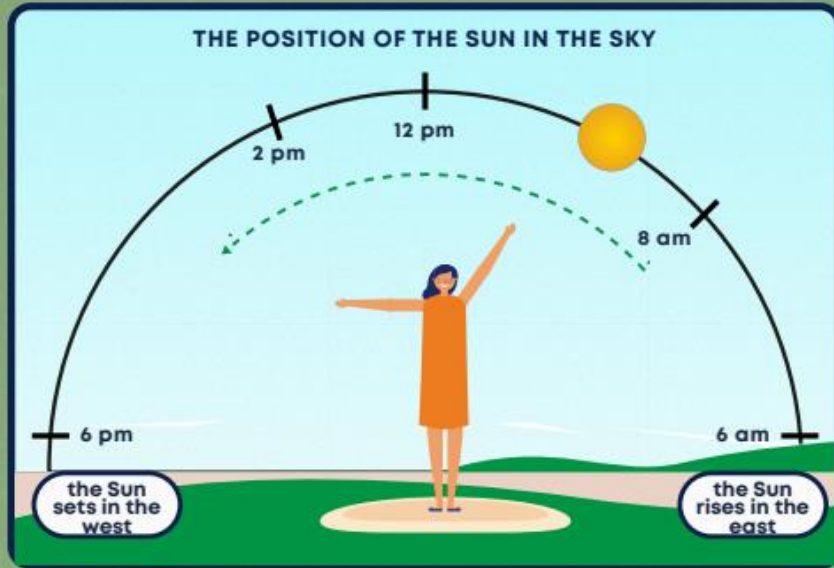
**What is space exploration?**  
 Space exploration is the use of astronomy and space technology to explore outer space. It is currently carried out mainly by astronomers with telescopes, and its physical exploration is conducted both by uncrewed robotic space probes and human spaceflight. The primary motivations for exploring space include advancing scientific research, national prestige, uniting different nations, ensuring the future survival of humanity, and developing military and strategic advantages against other countries

Important figures			
Katherine Johnson	Neil Armstrong	Mae Jemison	Time Peake
 <p>Creola Katherine Johnson (1918 –2020) was an American mathematician whose calculations of orbital mechanics as a NASA employee were critical to their success.</p>	 <p>Neil Alden Armstrong (1930 –2012) was an American astronaut and aeronautical engineer who in 1969 became the first person to walk on the Moon.</p>	 <p>Mae Carol Jemison (born October 17, 1956) is an American engineer, physician, and former NASA astronaut. She became the first African-American woman to travel into space</p>	 <p>Major Timothy "Tim" Nigel Peake CMG (born 7 April 1972) is a British author, Army Air Corps officer and European Space Agency astronaut.</p>

Monday	Tuesday	Wednesday	Thursday	Friday
HWK – Maths Book	HWK – Reading	HWK – Grammar Book	HWK – Reading	HWK – Spellings

**Key Dates:**

- Hindu Temple visit - World Book Week



KEY VOCABULARY

astronomy

the **study of the universe**, stars and galaxies

astronomer

a scientist who **studies the planets**, stars and galaxies

universe

all of **space, time, matter and energy**

galaxy

huge "**cities**" of stars bound together by gravity

star

a massive **ball of super-heated gas**

solar system

the name for our **sun and planets**, including Earth

orbit

a **regular and repeating path** that an object in space takes

light year

the **distance light travels in one year**: roughly 9.5 trillion kilometres

Big Bang theory

an explanation about **how the universe began**

gravity

a **force which pulls things to the ground** on Earth

satellite

something that **orbits the Earth** or another planet

the Milky Way

**our galaxy** which contains our solar system

**THE SOLAR SYSTEM**

