

Science Knowledge Building

Know that the relationship between the Moon and the Earth causes the tides	Understand that learning about other methods can lead to adaptations and improvements	Know about the 'Flat Earth' theory and present basic evidence to support or dismiss this	Know and understand the terms 'cycle', 'galaxy', 'constellations' and 'axis'	Know that research by global space agencies of the Earth, Sun and Moon develops our understanding of other planets	Know how to put together an argument for a particular theory e.g. spherical Earth
Know that the Earth orbits the sun and the Earth rotates, creating the change between day and night	Know how to explain a theory well by backing it up with evidence, such a diagrams and clear labelling	Know the basis of Copernicus's theory of planetary motion	Know and understand the terms 'orbit', 'spherical' and 'solar system'	Know that the research of the Earth and Moon is used by space agencies and companies globally	Know how to put together a presentation of findings, share it with a group and prepare for questions
Understand that numerous factors can affect or prevent change	Know what makes a good methodology and explain how adaptations can lead to improvements	Identify, analyse and explain findings to support or dismiss theories or arguments	Know how to use a range of scientific vocabulary in various contexts	Know that science has implications for world issues and that it can be used for good or bad	Understand how their own STEM skills can benefit future science work in school and beyond
Processes and Changes	Methods	Observing and Recording	Scientific Vocabulary	Uses and Implications	Cross-Curricular (STEM)

Mission Control