



Subject	Year	Term
Astronomy	10	1
Topic		
Chapters 1 – 7: Our Planet, Our Solar System		
Content (Intent)		
Prior Learning (Topic) Y8 Space Module		
Planet Earth - 1.1. Earth's Structure, 1.2. Latitude and Longitude, 1.3. Earth's Atmosphere Celestial Observation - 6.1. Night Sky, 6.2. Stars and Constellations, 6.3. Celestial Sphere, 6.4. Coordinate Systems, 6.5. Diurnal Motion, 6.6. Circumpolar Stars, 6.7. Practical Observing The Lunar Disc - 2.1. Surface Features of the Moon, 2.2. The Moon's Orbit Exploration of the Moon - 9.1. Exploration of the Moon, 9.2. Origin of the Moon Exploring the Solar System - 11.1. Planets and dwarf planets, 11.2. Comets & 11.3. Meteoroids and meteorites, 11.4. The size of the Solar System, 11.5. Optical telescopes 1, 11.6. Optical telescopes 2, 11.7. Space Probes Solar System Observation - 5.1. Observing the Planets, 5.2. The apparent motion of the Sun Early Models of the Solar System - 7.1. Solar and lunar cycles, 7.2. Models of the Solar System		
Future Learning (Topic) Stars, Starlight, Galaxies, The Universe		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
Knowledge Layers of the Earth Objects in the Night Sky Celestial Sphere Coordinate System Lunar Features Optical Telescope design (refractors and reflectors) Early Models of the Solar system (Copernicus, Ptolemy, etc)	Mock Exams – December and March 45-minute assessments to confirm understanding of knowledge. December will happen in lesson, March will take place as part of the formal mock timetable. Practice Exam Questions - using the Pearson online system to use prior exam questions at the start of each lunchtime session.	
Maths Skills – Angles, Longitude, Latitude, Proportionalities, Kepler’s 3 rd Law, Magnification, Equation of Time, Stellar Distances Practical Skills – Using telescopes, Making astronomical observations, sundials, shadow sticks, pinhole projection	Interleaving Topic – Topics will be interleaved throughout, the scheme naturally recalls knowledge as the learners depth of Astronomy both broadens and strengthens.	
How can parents help at home?		
Support with unaided/aided observations Textbooks BBC Sky at Night website Show an interest at looking up at the night sky and asking questions		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
Reading BBC Sky at Night GCSE Astronomy (9-1) by Nigel Marshall 5 th Edition Stellarium App Stargazing by Royal Observatory Greenwich Night Sky Almanac (yearly releases)	Vocabulary Lists Absolute Magnitude Focal Length Aperture Galaxies Apparent Magnitude Gravitation Big bang Hubble’s Law Declination Kepler’s Laws Eclipse Lunar	