Subject: Science

Medium term plan - Unit planning and Evaluation sheet:

Module - 7P4 Space

Year group - 7

	Description
What prior learning do students need to have have? **Why are you teaching it now?** **What are the key Covid Gaps and how are we accounting for this?**	*Pupils should be taught to: describe the movement of the Earth, and other planets, relative to the Sun in the solar system describe the movement of the Moon relative to the Earth describe the Sun, Earth and Moon as approximately spherical bodies use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.* *This module builds on previous content from earlier in year 7 and has some challenging concepts*
Misconceptions - what are key misconceptions?	*Pluto is a planet - the classification of planets.* *The concept that light is emitted by stars and not by planets. Introduces the idea of reflection* *Weight and mass - pupils will confuse the two. It is important to build in early the idea that weight is a force and mass is not.* *the distances in space - pupils need to grasp how vast the distances in space are.*

End points: *What are you expecting students to be able to do at the end of the module that they couldn't do at the start?* *For LA students what are the key learning objectives - which lessons are these in?* *How is stretch and challenge achieved?*	**gravity force, weight = mass x gravitational field strength (g), on Earth g=10 N/kg, different on other planets and stars; gravity forces between Earth and Moon, and between Earth and Sun (qualitative only) our Sun as a star, other stars in our galaxy, other galaxies the seasons and the Earth's tilt, day length at different times of year, in different hemispheres the light year as a unit of astronomical distance.**	
Tier 2 / Tier 3 Vocab *What are the keywords?*	*Space, mass, weight, forces, planets, stars, comets, luminous, meteor, newtons, moons, satellites*	
Assessment - *What are the assessment opportunities in this module?*	*Long answer question* *EDSM test* *Recall questions as starter every lesson* *Plenary activity in each lesson allowing quick informative self or teacher assessment*	
Homework - *What homework is set (which educake quizzes)*	*Selection of tasks available on Educake for students to consolidate their knowledge.*	
Where are opportunities for the following? Please be specific where these are being addressed	**Numeracy**	**calculations on weight and mass** **graph drawing**
	Literacy	**Long answer questions for the LAT** **New key words**

and identify the lesson (for example graph drawing - lesson 7; plotting a distance/time graph) .		**Choral reading** **Feedback response - reading skills**
	SEND	Key learning points for LA SEND students are identified above - teachers may choose to focus more time on these concepts to ensure students have mastered these. Each task has suggested support or alternative activities for LA students or SEND students, this is outlined in the lesson plan for each lesson.
	Oracy	There are opportunities for oracy in various lessons (identified in lesson plans) - where students can verbally give responses.
	Practical skills	
	Cultural capital / links to wider curriculum	**Pupils to look at how our ideas of the universe have adapted over time** **Pupils to discover the night sky - different constellations** **Jobs in research** **Link to**
	Career opportunities	